

Johannesburg Branch

 MIMIC COMPONENTS

Cape Town Branch

 Mimic Cape

Qlight

Signal Tower Lights Catalogue 2025



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Symbols & Meanings

For more information on Tower Lights call

Mimic Components JHB

Switchboard 011-689-5700 | Email info1@mimiccomponents

Mimic Cape

Telephone 021-551-8185 | Email info@mimic-cape.co.za





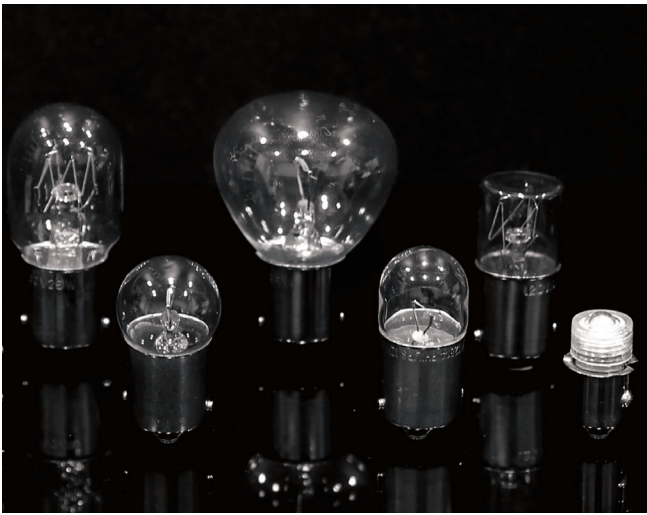
SELECTION OF WARNING LIGHT

The selection of signaling devices will depend on the particular situation and environment.

- Whether the location of installation is dark or bright.
- Whether the signal transmission range should be short or long, or should have good visibility.
- Whether you need an economical but short lifetime product or upscale product with longer lifetime.
- Whether the environment is harsh with vibration and shock, or the environment is stable so that the life of the lights can be guaranteed.
- Whether it hugely or lightly affects ongoing task and safety when light source(bulb) of beacon is damaged at once.

FACTORS TO CONSIDER IN SIGNAL SELECTION





TYPE OF LIGHT SOURCE

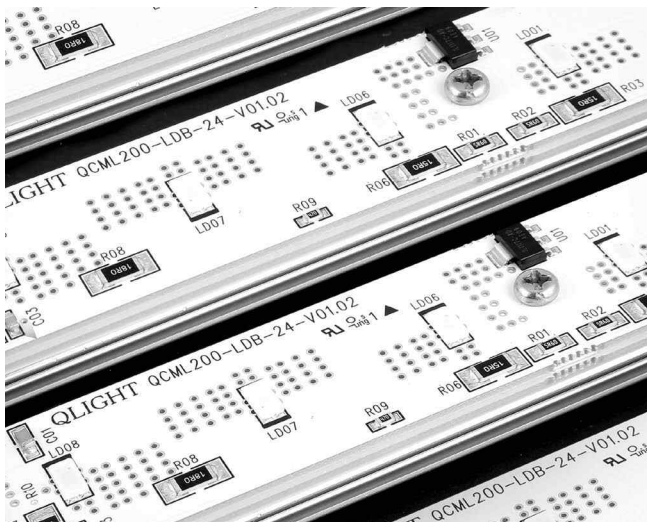
Bulb

Light bulb is a light source that uses temperature reflection generated by the current flowing through the light bulb filament (thin line of metal), tungsten wire coil filament is often used. The hot filament is protected from oxidation with a glass sphere injected with inert gas (Argon gas, etc.). Typical characteristics of the gas injected bulb is described below.

1. When operating voltage is 10% lower than bulb's rated voltage, lifespan of product is quadrupled and power consumption is reduced to 85%.
2. On the contrary, when the operating voltage rises by 10%, lifespan of product becomes extremely short by 30% compared to the standard lifespan of a standard bulb (approx. 1,000 to 1,500 hours), and the power consumption rises by 16%. On the other hand, the brightness increases by 40%.

LED

The LED is a light emitting diode which emits light by injecting a current in the PN junction of the special semiconductor, semiconductors such as GaAs, GaP that Maximizes the electro-optical conversion effects are used. Like other semiconductors, over-voltage or ambient temperature affects the lifetime, but due to the absence of mechanical abrasion of the part, LED is shock/ vibration resistant so there is no need for proper seismic design. The standard service life of an LED is about 50,000 hours.



Xenon Lamp

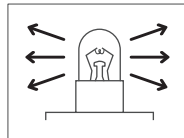
Xenon lamp is a flash type light source that emits bright light instantly by inserting high energy into the lamp. Compared with the steady type lamp, xenon lamps need a lot of input power instantly and a extremely large amount of light it is diffused.

The lamp is filled with xenon(Xe) gas due to the convenience of the production(choice of materials), its use, xenon lamp was named after the xenon gas that it uses. xenon lamps are also resistant to vibration due to its mounting method. In addition, it is visible even in bright environments not only because the spectacle distribution of the visible light is close to the sunlight, it uses the same method as the strobe of the camera.

Warning Light/Indicator Light Operating Principle

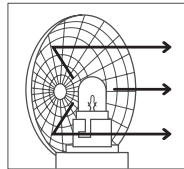
SELECTION OF WARNING LIGHT

The selection of signaling devices will depend on the particular situation and environment.



Bulb Steady/Flashing Type

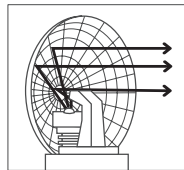
Highly diffusible light bulb that refracts light through a special lens and can be used in a steady or flashing state



Bulb Revolving Type

By combining a highly diffusible light bulb and a reflector, light is reflected in a parallel beam with a rotating cycle

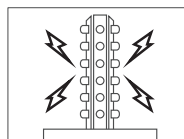
Our bulb revolving model has a long lifetime enabled by using a high durability bulb and a power transfer system that minimizes noise and abrasion



LED Revolving Type

The combination of an LED and a reflector creates a parallel light beam with a rotating cycle

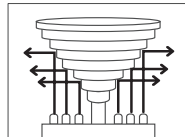
LED Rotating model with reflector adopts a special light distribution and multiple reflection system that is obtained a patent by Qlight can emit the light intensively and evenly as same as a bulb rotating type with reflector. (Patent No.: 10-0889803, 10-0808669 and 20-2008-0002489)



LED Strobe-Type

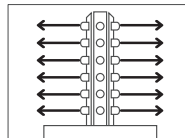
By shortening the LED flashing period and supplying the maximum current to the LED, It produces a flash effect just like the xenon lamp



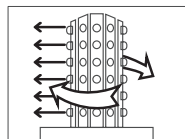


LED Steady/Flashing Type

The indirect light distribution system uses a special structure to radiate a uniform light signal throughout the entire body of the lens by using a multi-stage reflector

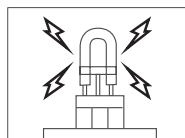


The direct light distribution system uses a high-intensity LED light and diffusion lens to transfer signal over a long distance. Qlight LED lights / flashing lights are equipped with two structures depending on the model type, Steady or Flashing Type



LED Simulated Revolving Type

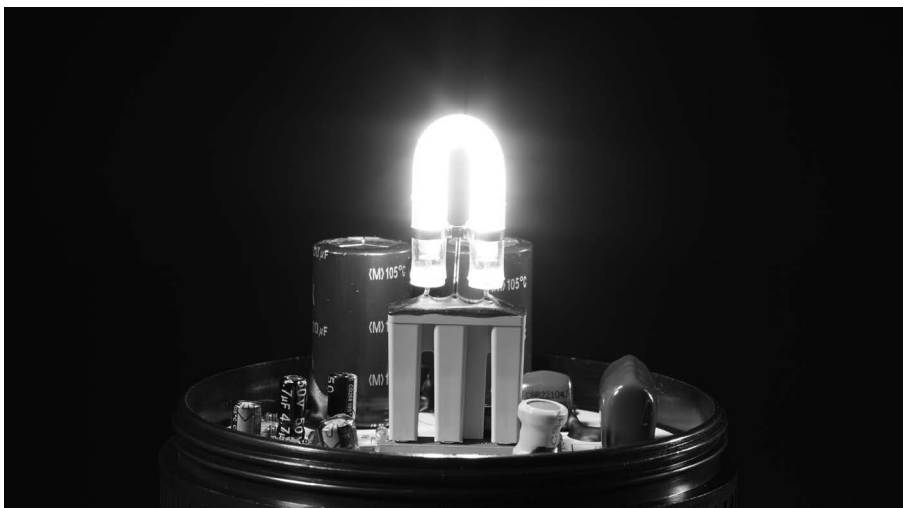
By uniformly arranging the LED lens in a 360 degree circumferential direction, it will produce a flash in a regular rotating sequence. The visual effect looks just the same as the revolving model



Xenon Lamp Strobe-Type

An intensive flashing light emitting model with short term energy consumption that can highly attract worker's attention. Better shock resistance than a conventional bulb and weaker than LED.

Since it adopts intensive xenon lamp light emitting into lens design, it can emit intensive signal light in all directions of the lens.

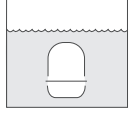


Waterproof and Dustproof Protection Structure

Comparing waterproof & dustproof protection structure

IP rating _ Known as "Ingress Protection rating" indicated in two-digit code showing the amount of protection against solid and the liquid(IEC60529)

IP 6 7

First Number Protection against solid		Second Number Protection against liquid	
0	 No protection	0	 No protection
1	 Protected against solid objects over 50mm, eg accidental touch by persons hands	1	 Protection against vertically falling drops of water eg condensation
2	 Protected against solid objects over 125mm, eg persons fingers	2	 Protection against direct sprays of water up to 15° from the vertical
3	 Protected against solid objects over 25mm (tools and wires)	3	 Protected against direct sprays of water up to 60° from the vertical
4	 Protected against solid objects over 1mm (tools, wires, and small wires)	4	 Protection against water sprayed from all directions - limited ingress permitted
5	 Protected against dust limited ingress (no harmful deposit)	5	 Protected against low pressure jets of water from all directions - limited ingress
6	 Totally protected against dust	6	 Protected against temporary flooding of water, eg for use on ship decks - limited ingress permitted
		7	 Protected against the effect of immersion between 15 cm and 1 m
		8	 Protects against long periods of immersion under pressure

NEMA SIZE

National Electrical Manufacturers Associations standard for enclosure protection rating, NEMA1-6 and 11-13 type is applicable in Non-Hazardous Locations, NEMA 7-10 is applicable in Hazardous Locations

Type	Usage place	Environment	Protection rating
1	Indoor Use	Non-explosion proof	Intended for indoor use primarily to provide a degree of protection against limited amounts of falling dirt
2	Indoor Use	Non-explosion proof	Intended for indoor use primarily to provide a degree of protection against limited amounts of falling water and dirt
3	Outdoor Use	Non-explosion proof	Intended for outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust; and damage from external ice formation
3R	Outdoor Use	Non-explosion proof	Intended for outdoor use primarily to provide a degree of protection against rain, sleet; and damage from external ice formation, and must have a drain hole
3S	Outdoor Use	Non-explosion proof	Intended for outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust; and to provide for operation of external mechanisms when ice laden
4	Indoor/Outdoor Use	Non-explosion proof	Intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose directed water; and damage from external ice formation
4X		Non-explosion proof	Intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose directed water; and damage from external ice formation
5	Indoor Use	Non-explosion proof	Intended for indoor use primary to provide
6	Indoor/Outdoor Use	Non-explosion proof	Intended for indoor or outdoor use primarily to provide a degree of protection against hose directed water, the entry of water during occasional temporary submersion at a limited depth; and damage from external ice formation
6P		Non-explosion proof	Intended for indoor or outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during prolonged submersion at a limited depth; and damage from external ice formation
7	Outdoor Use	Explosion proof	Intended for indoor use in locations classified as Class I, Groups A, B, C, or D, as defined in the NEC
8	Indoor/Outdoor Use	Explosion proof	Intended indoor or outdoor use in locations classified as Class I, Groups A, B, C, or D, as defined in the NEC
9	Indoor Use	Explosion proof	Intended for indoor use in locations classified as Class II, Groups E, F, and G, as defined in the NEC
10	Indoor/Outdoor Use	Explosion proof	Are constructed to meet the applicable requirements of the Mine Safety and Health Administration (MSHA)
11	Indoor Use	Non-explosion proof	Protection from the corrosive effects of liquids and gases by oil immersion
12	Indoor Use	Non-explosion proof	Intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids
12K	Indoor Use	Non-explosion proof	Intended knockouts are intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non corrosive liquids
13	Indoor Use	Non-explosion proof	Intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil, and non-corrosive coolant

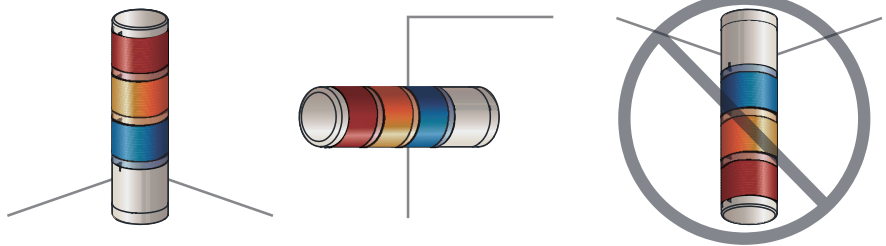
NEMA Ratings and IP Ratings Equivalency Chart

The chart below is for comparison between two enclosure ratings It is only for reference and these two rating standards are not exactly converted

NEMA ENCLOSURE TYPE	IP ENCLOSURE TYPE
1	IP20
2	IP22
3	IP55
4	IP66
4X	IP66
6	IP67
12	IP54
13	IP54

• **SIGNAL TOWER LIGHTS**

Power cord inlet part shall not be facing the sky.

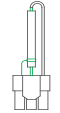
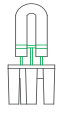
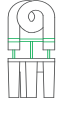


※ For products with a protection rating of less than IPX4, please install it vertically.

Bulb Specification

The table below summarizes bulb specifications that are equipped with Qlight's products. Please carefully review the bulb specification in case bulb replacement is needed. Otherwise it may cause part malfunction.

Layout	Part#	Feature	Spec	Voltage	Current	Product
	1	14V / 5W	G14 9S	12V	0.357A	S50, ST45
	2	27V / 5W	G14 9S	24V	0.185A	
	3	120V / 5W	T16 x 28 9S	110V	0.042A	S50, ST45
	4	240V / 5W	T16 x 28 9S	220V	0.021A	
	5	12V / 5W	T16 x 35 15S	12V	0.417A	S60, S80, SR SJ, SJD
	6	24V / 5W	T16 x 35 15S	24V	0.208A	
	7	120V / 5W	T16 x 35 15D	110V	0.042A	S60
	8	240V / 5W	T16 x 35 15D	220V	0.021A	
	9	12V / 10W	T16 x 35 15S	12V	0.833A	S100, S125 SE ST56, ST80
	10	24V / 10W	T16 x 35 15S	24V	0.417A	
	11	48V / 10W	T16 x 35 15S	48V	0.208A	
	12	120V / 10W	T16 x 35 15S	110V	0.083A	S100, S125 ST56, ST80
	13	240V / 10W	T16 x 35 15S	220V	0.042A	
	14	48V / 10W	T16 x 35 15D	48V	0.208A	
	15	120V / 10W	T16 x 35 15D	110V	0.083A	
	16	240V / 10W	T16 x 35 15D	220V	0.042A	
	17	12V / 15W	G23 15S	12V	1.250A	SK, S150, SH1, SH2, SED SD, SHD, SHD2 SMD, SESA, SEBA, SEA
	18	24V / 15W	G23 15S	24V	0.625A	
	19	48V / 15W	G23 15S	48V	0.313A	
	20	120V / 15W	G23 15S	110V	0.125A	
	21	240V / 15W	G23 15S	220V	0.063A	
	22	120V / 15W	G23 15D	110V	0.125A	S150, SH1, SH2, SED SD, SHD, SHD2 SMD, SESA, SEBA, SEA
	23	240V / 15W	G23 15D	220V	0.063A	
	24	12V / 23W	S25 15S	12V	1.916A	S150, SH2, SD, SMD SESA, SEBA, SEA
	25	24V / 23W	S25 15S	24V	0.958A	
	26	48V / 25W	T23 x 62 15D	48V	0.521A	S150, SH2, SD, SMD SESA, SEBA, SEA
	27	120V / 25W	T23 x 62 15D	110V	0.208A	
	28	240V / 25W	T23 x 62 15D	220V	0.104A	
	29	12V / 35W	RP35 15S	12V	2.917A	S180
	30	24V / 35W	RP35 15S	24V	1.458A	

Layout	Part#	Feature	Spec	Voltage	Current	Product
	31	120V / 35W	RP35 15D	110V	0.292A	S180
	32	240V / 35W	RP35 15D	220V	0.146A	
	33	110V / 60W	E26 ES	110V	0.545A	S150, SH2, SD, SMD SESA, SE, SEBA, SEA
	34	220V / 60W	E26 ES	220V	0.272A	
	35	12V / 30W	A60 E26	12V	2.500A	S150, SH2 SD, SMD
	36	24V / 60W	A60 E26	220V	2.500A	
	37	110V / 60W	A60 E26	110V	0.545A	S150, SH2 SD, SMD
	38	220V / 60W	A60 E26	220V	0.272A	
	39	12V / 35W	15S Halogen	12V	2.917A	SKH
	40	24V / 35W	15S Halogen	24V	1.458A	
	41	110V / 35W	15D Halogen	110V	0.318A	S150, SH2, SD, SMD SESA, SE, SEBA, SEA
	42	220V / 35W	15D Halogen	220V	0.159A	
	43	12V / 55W	15D Halogen	12V	4.583A	S150, SH2, SD, SMD SESA, SE, SEBA, SEA
	44	24V / 55W	15D Halogen	24V	2.292A	
	45	120V / 55W	15D Halogen	110V	0.458A	S150, SH2, SD, SMD SESA, SE, SEBA, SEA
	46	240V / 55W	15D Halogen	220V	0.229A	
	47	220V-350V	BGA2120 -BBC I Type xenon lamp		4W	S80S, S80AS SNE-S, SNES-S, SE-S
	48	200V-550V	EUB0641 -1A(G) U Type xenon lamp		6W	S100S, S125S S150US, S150RS SJS, SJSP SH1S, SH2S SEDS, SDS, SMDs SHDS, SHD2S SCDWS, SCDFS SESAS, SEBAS, SEAS
	49	280V-400V	BH0647(G) W Type xenon lamp		16W	S180US, S180UHS

Tower Light Mounting brackets

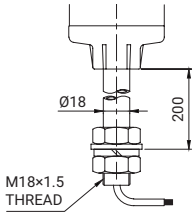
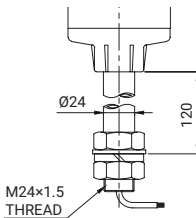
User can select from a variety of Mounting brackets options depending on their application conditions.

Units: mm

- **18mm SCREW & NUT (Standard Type)**
- **24mm SCREW & NUT (Standard Type)**

Standard type pole mount installation.
There is a screw at the end of the pole
and it is equipped with nut for installation.

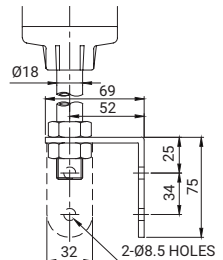
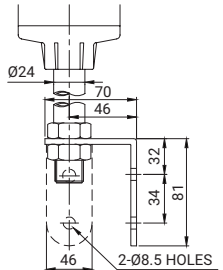
Material: Steel

Product Image	Technical Diagram for Applicable Models
 18mm SCREW & NUT (Standard Type)	 ST45 / ST56 Series, STG40 / STG50 Series, STC45 / STC56 Series, QTG50 / QTG60 Series, QTC50 / QTC60 Series, QTR50 / QTR60 Series, QT50 Series, QTG60-WIZ Series, MTG50 / MTG60 Series, MTC50 / MTC60 Series, MTR50 / MTR60 Series, EST56 Series, ST45 / ST56-ETN Series, QTG50 / QTG60-ETN Series, QTC50 / QTC60-ETN Series, QTR50 / QTR60-ETN Series, ST45 / ST56-USB Series, QTG50 / QTG60-USB Series, QTC50 / QTC60-USB Series, QTR50 / QTR60-USB Series
 24mm SCREW & NUT (Standard Type)	 ST80 Series, STC80 Series, QTG70 Series, QTC70 Series, QTR70 Series, QT70 Series, QTG70-WIZ Series, MTG70 Series, MTC70 Series, MTR70 Series, QAT80 Series, ST80-ETN Series, QTG70-ETN Series, QTC70-ETN Series, QTR70-ETN Series, ST80-USB Series, QTG70-USB Series, QTC70-USB Series, QTR70-USB Series

- **LB18 | LB24**

L-type bracket is attached to the pole
mount tower light for installation to the
side of the equipment.

Material: Steel

Product Image	Technical Diagram for Applicable Models
 LB18	 ST45 / ST56 Series, STG40 / STG50 Series, STC45 / STC56 Series, QTG50 / QTG60 Series, QTC50 / QTC60 Series, QTR50 / QTR60 Series, QT50 Series, QTG60-WIZ Series, MTG50 / MTG60 Series, MTC50 / MTC60 Series, MTR50 / MTR60 Series, EST56 Series, ST45 / ST56-ETN Series, QTG50 / QTG60-ETN Series, QTC50 / QTC60-ETN Series, QTR50 / QTR60-ETN Series, ST45 / ST56-USB Series, QTG50 / QTG60-USB Series, QTC50 / QTC60-USB Series, QTR50 / QTR60-USB Series
 LB24	 ST80 Series, STC80 Series, QTG70 Series, QTC70 Series, QTR70 Series, QT70 Series, QTG70-WIZ Series, MTG70 Series, MTC70 Series, MTR70 Series, QAT80 Series, ST80-ETN Series, QTG70-ETN Series, QTC70-ETN Series, QTR70-ETN Series, ST80-USB Series, QTG70-USB Series, QTC70-USB Series, QTR70-USB Series

Tower Light Mounting brackets

Units: mm

• LW18 | LW24

High-end L-type bracket is attached to the pole mount tower light for side of equipment installations. Wires can be threaded through the side of the bracket or come out at the bottom. The threads inside the bottom of the bracket can enable use of cable connectors.

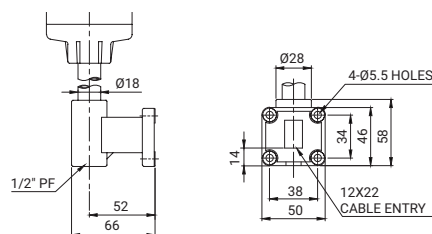
Material: ABS
Color: Ivory

Product Image



LW18

Technical Diagram for Applicable Models

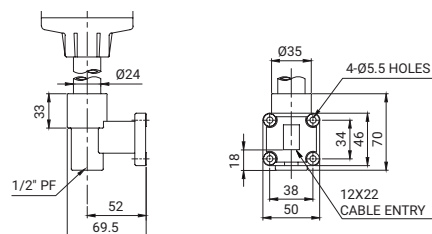


ST45 / ST56 Series, STG40 / STG50 Series, STC45 / STC56 Series, QTG50 / QTG60 Series, QTC50 / QTC60 Series, QTR50 / QTR60 Series, QT50 Series, QTG60-WIZ Series, MTG50 / MTG60 Series, MTC50 / MTC60 Series, MTR50 / MTR60 Series, EST56 Series, ST45 / ST56-ETN Series, QTG50 / QTG60-ETN Series, QTC50 / QTC60-ETN Series, QTR50 / QTR60-ETN Series, ST45 / ST56-USB Series, QTG50 / QTG60-USB Series, QTC50 / QTC60-USB Series, QTR50 / QTR60-USB Series

Product Image



LW24



ST80 Series, STC80 Series, QTG70 Series, QTC70 Series, QTR70 Series, QT70 Series, QTG70-WIZ Series, MTG70 Series, MTC70 Series, MTR70 Series, QAT80 Series, ST80-ETN Series, QTG70-ETN Series, QTC70-ETN Series, QTR70-ETN Series, ST80-USB Series, QTG70-USB Series, QTC70-USB Series, QTR70-USB Series

Technical Diagram for Applicable Models

• SZ18 | SZ24

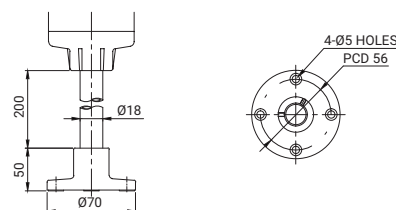
Round-shaped bracket for horizontal surface installation.

Material: Al
Color: Silver

Product Image



SZ18

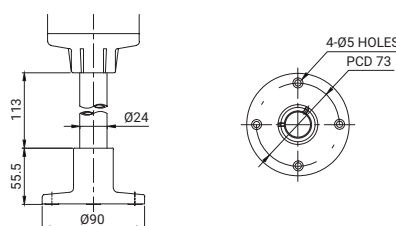


ST45 / ST56 Series, STG40 / STG50 Series, STC45 / STC56 Series, QTG50 / QTG60 Series, QTC50 / QTC60 Series, QTR50 / QTR60 Series, QT50 Series, QTG60-WIZ Series, MTG50 / MTG60 Series, MTC50 / MTC60 Series, MTR50 / MTR60 Series, EST56 Series, ST45 / ST56-ETN Series, QTG50 / QTG60-ETN Series, QTC50 / QTC60-ETN Series, QTR50 / QTR60-ETN Series, ST45 / ST56-USB Series, QTG50 / QTG60-USB Series, QTC50 / QTC60-USB Series, QTR50 / QTR60-USB Series

Product Image



SZ24



ST80 Series, STC80 Series, QTG70 Series, QTC70 Series, QTR70 Series, QT70 Series, QTG70-WIZ Series, MTG70 Series, MTC70 Series, MTR70 Series, QAT80 Series, ST80-ETN Series, QTG70-ETN Series, QTC70-ETN Series, QTR70-ETN Series, ST80-USB Series, QTG70-USB Series, QTC70-USB Series, QTR70-USB Series

Tower Light Mounting brackets

Units: mm

• QZ18 | QZ24

Round-shaped bracket for horizontal surface installation.

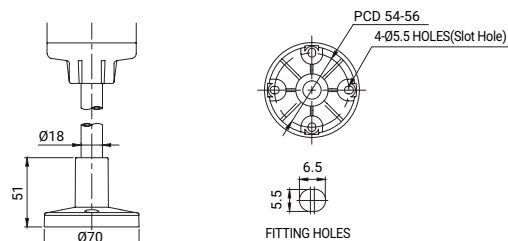
Material: ABS
Color: Black

Product Image



QZ18

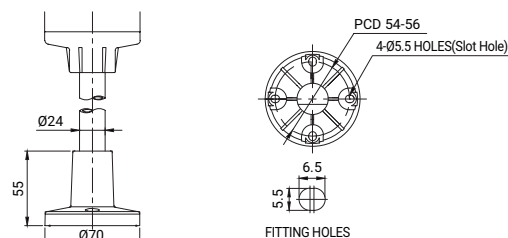
Technical Diagram for Applicable Models



ST45 / ST56 Series, STG40 / STG50 Series, STC45 / STC56 Series, QTG50 / QTG60 Series, QTC50 / QTC60 Series, QTR50 / QTR60 Series, QT50 Series, QTG60-WIZ Series, MTG50 / MTG60 Series, MTC50 / MTC60 Series, MTR50 / MTR60 Series, EST56 Series, ST45 / ST56-ETN Series, QTG50 / QTG60-ETN Series, QTC50 / QTC60-ETN Series, QTR50 / QTR60-ETN Series, ST45 / ST56-USB Series, QTG50 / QTG60-USB Series, QTC50 / QTC60-USB Series, QTR50 / QTR60-USB Series



QZ24



ST80 Series, STC80 Series, QTG70 Series, QTC70 Series, QTR70 Series, QT70 Series, QTG70-WIZ Series, MTG70 Series, MTC70 Series, MTR70 Series, QAT80 Series, ST80-ETN Series, QTG70-ETN Series, QTC70-ETN Series, QTR70-ETN Series, ST80-USB Series, QTG70-USB Series, QTC70-USB Series, QTR70-USB Series

• SL18 | SL24

An angle adjustable bracket (15 degree intervals for a range of 0-180 degrees) enables easy vertical, horizontal, and slanted installation.

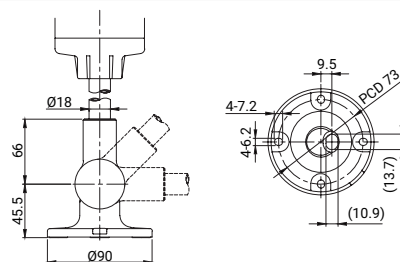
Material: Al
Color: Silver

Product Image



SL18

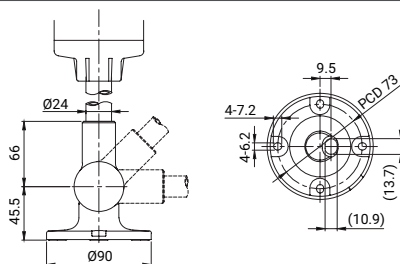
Technical Diagram for Applicable Models



ST45 / ST56 Series, STG40 / STG50 Series, STC45 / STC56 Series, QTG50 / QTG60 Series, QTC50 / QTC60 Series, QTR50 / QTR60 Series, QT50 Series, QTG60-WIZ Series, MTG50 / MTG60 Series, MTC50 / MTC60 Series, MTR50 / MTR60 Series, EST56 Series, ST45 / ST56-ETN Series, QTG50 / QTG60-ETN Series, QTC50 / QTC60-ETN Series, QTR50 / QTR60-ETN Series, ST45 / ST56-USB Series, QTG50 / QTG60-USB Series, QTC50 / QTC60-USB Series, QTR50 / QTR60-USB Series



SL24



ST80 Series, STC80 Series, QTG70 Series, QTC70 Series, QTR70 Series, QT70 Series, QTG70-WIZ Series, MTG70 Series, MTC70 Series, MTR70 Series, QAT80 Series, ST80-ETN Series, QTG70-ETN Series, QTC70-ETN Series, QTR70-ETN Series, ST80-USB Series, QTG70-USB Series, QTC70-USB Series, QTR70-USB Series

Tower Light Mounting brackets

Units: mm

• QL18 | QL24

An angle adjustable bracket (5 degree intervals for a range of 0-180 degrees) enables easy vertical, horizontal, and slanted installation.

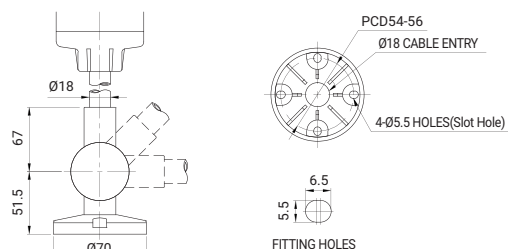
Material: ABS
Color: Black

Product Image



QL18

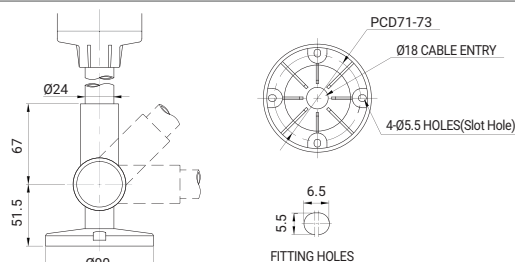
Technical Diagram for Applicable Models



ST45 / ST56 Series, STG40 / STG50 Series, STC45 / STC56 Series, QTG50 / QTG60 Series, QTC50 / QTC60 Series, QTR50 / QTR60 Series, QT50 Series, QTG60-WIZ Series, MTG50 / MTG60 Series, MTC50 / MTC60 Series, MTR50 / MTR60 Series, EST56 Series, ST45 / ST56-ETN Series, QTG50 / QTG60-ETN Series, QTC50 / QTC60-ETN Series, QTR50 / QTR60-ETN Series, ST45 / ST56-USB Series, QTG50 / QTG60-USB Series, QTC50 / QTC60-USB Series, QTR50 / QTR60-USB Series



QL24



ST80 Series, STC80 Series, QTG70 Series, QTC70 Series, QTR70 Series, QT70 Series, QTG70-WIZ Series, MTG70 Series, MTC70 Series, MTR70 Series, QAT80 Series, ST80-ETN Series, QTG70-ETN Series, QTC70-ETN Series, QTR70-ETN Series, ST80-USB Series, QTG70-USB Series, QTC70-USB Series, QTR70-USB Series

• FB18

An angle adjustable bracket (5 degree intervals for a range of 0-180 degrees) enables easy vertical, horizontal, and slanted installation.

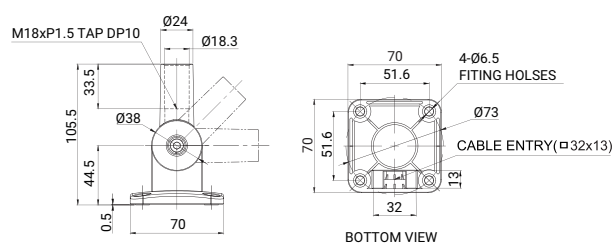
Material: ABS
Color: Black, Ivory

Product Image



FB18
(Black)

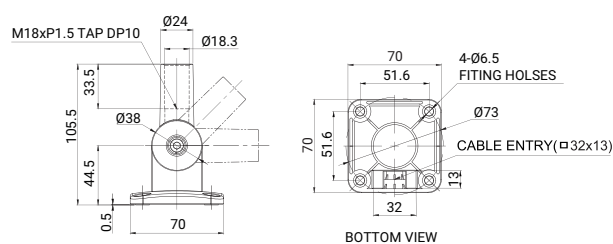
Technical Diagram for Applicable Models



EST56L



FB18
(Ivory)



EST56L

Tower Light Mounting brackets

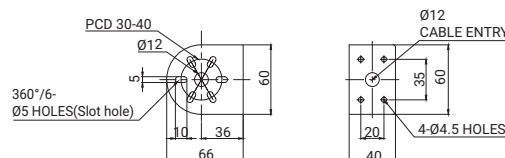
Units: mm

• TWS45 | TWS80

Bracket options for direct mount warning/
signal light installation.
Material: Steel
Color: Silver, Ivory



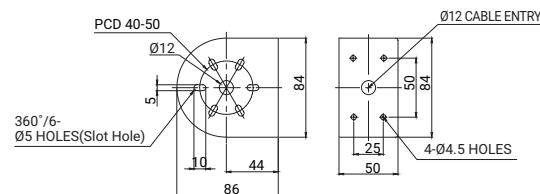
TWS45



ST45 / ST56M Series, STG40 / STG50M Series, STC45 / STC56M Series, QTG50 / QTG60M Series, QTC50M / QTC60M Series, QTR50 / QTR60M Series, QT50M Series, QTG60M-WIZ Series, MTG50 / MTG60M Series, MTC50 / MTC60M Series, MTR50 / MTR60M Series, QTG50 / QTG60M-USB Series, QTC50 / QTC60M-USB Series, QTR50 / QTR60M-USB Series, QTG50 / QTG60M-ETN Series, QTC50 / QTC60M-ETN Series, QTR50 / QTR60M-ETN Series



TWS80



ST80M Series, STC80 Series, QTG70M Series, QTC70M Series, QTR70M Series, MTG70M Series, MTC70M Series, MTR70M Series, QT70M Series, QTG70M-USB Series, QTC70M-USB Series, QTR70M-USB Series, QTG70M-ETN Series, QTC70M-ETN Series, QTR70M-ETN Series, QTG70M-WIZ Series

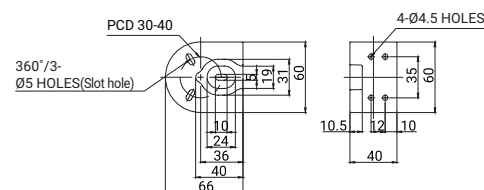
• TWA45 | TWA80

Bracket options for direct mount warning/
signal light installation.
Bracket structure allows for contained
and tidy wiring with no exposed wires.

Material: PC
Color: Black, Ivory



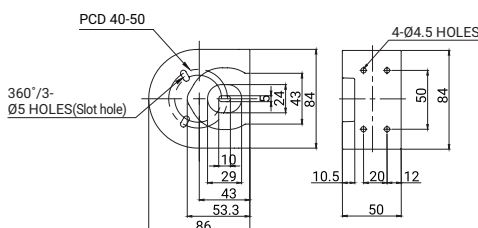
TWA45



ST45 / ST56M Series, STG40 / STG50M Series, STC45 / STC56M Series, QTG50 / QTG60M Series, QTC50M / QTC60M Series, QTR50 / QTR60M Series, QT50M Series, QTG60M-WIZ Series, MTG50 / MTG60M Series, MTC50 / MTC60M Series, MTR50 / MTR60M Series, QTG50 / QTG60M-USB Series, QTC50 / QTC60M-USB Series, QTR50 / QTR60M-USB Series, QTG50 / QTG60M-ETN Series, QTC50 / QTC60M-ETN Series, QTR50 / QTR60M-ETN Series



TWA80



ST80M Series, STC80 Series, QTG70M Series, QTC70M Series, QTR70M Series, MTG70M Series, MTC70M Series, MTR70M Series, QT70M Series, QTG70M-USB Series, QTC70M-USB Series, QTR70M-USB Series, QTG70M-ETN Series, QTC70M-ETN Series, QTR70M-ETN Series, QTG70M-WIZ Series

Tower Light Mounting brackets



• STAWB25 | STAWB45

Bracket options for direct mount warning/
signal light installation.

Material: Steel
Color: Silver, Ivory

Units: mm

Product Image	Technical Diagram for Applicable Models	
STAWB25	STA25SLM, STA35SL, STA35SLM	
STAWB45	STA45SLM	

Icon Description

This catalogue helps users quickly identify the product's specifications and features by using several types of icons. If you understand the concept for each icon, you will find it easy to understand the catalogue information.

Light Source and Operating Mode Icons

Icon	Operating Mode	Icon	Operating Mode
	Bulb steady type		Bulb steady/flashing type
	Bulb revolving type		LED revolving type
	LED steady type		LED steady/flashing type
	LED simulated revolving type		LED strobe type
	Xenon lamp strobe type		

Acoustic Signal Icons

Icon	Siren	Icon	Siren
	Buzzer		Speaker
	Horn		Bell
	Motor siren		MP3
	Volume(dB)		

Specifications Icons

Icon	Specification	Icon	Specification
	Magnet type		Ambient operating temperature
	NPN type transistor		PNP type transistor
	IP rating		Wireless Network
	RoHS		

Signal Tower Lights



References for Signal Tower Lights



Model number	STA25SLM	STA35SL	STA35SLM	STA45SLM	STA45SLMP	QTA56L
Voltage	DC12V, DC24V AC110V, AC220V	DC12V DC24V	DC12V DC24V	DC12V DC24V	DC12V DC24V	DC24V
Outdia	Ø25	Ø35	Ø35	Ø45	Ø45	Ø45
Height	368-488	85-265	205-385	198-378	398-578	433
Depth						
Material	Lens-AS Housing-AI	Lens-AS Housing-ABS	Lens-AS Housing-AI	Lens-Acryl Inner lens-AS Housing-AI	Lens-Acryl Inner lens-AS Housing-AI	Lens-PC Housing-AI
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	3 Layers
Light source & Operation	LED Steady	●	●	●	●	●
Sound & Volume	1 buzzer sound	-	-	Max.90dB at 1m	Max.90dB at 1m	Max.85dB at 1m
Layer color change	No	No	No	No	No	No
Mount bracket	Direct mount	Direct mount	Direct mount	Direct mount	Pole mount	Pole mount
Bracket	STAWB25	STAWB25	STAWB25	STAWB45	LB18, LW18, QZ18, SZ18, QL18, SL18	
Protection rating	IP44	IP44	IP44	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)
Usage place	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use
Certificates	CE, UL	CE	CE	CE, UL	CE, UL	CE
Customization	Same lens color with LED, Wall mount bracket	Wall mount bracket	Wall mount bracket	Wall mount bracket	Pole length adjustment	Pole mount, M12 connector attached type
Transistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type
Page	P32	P33	P34	P35	P36	P38



Model number	QAT80L / QAT80ML	SWT / SWTE	QWT	MWTL	ST45ML	ST45L
Voltage	DC12V-24V	DC12V-24V AC110V, AC220V	DC12V, DC24V AC110V-AC220V	DC24V	AC/DC12V, AC/DC24V AC110V, AC220V	AC/DC12V, AC/DC24V AC110V, AC220V
Outdia	Ø80	Ø90(Half)	Ø70	Ø90(Half)	Ø45	Ø45
Height	269-430	216	121-285	216	106-358	320-572
Depth		46		39		
Material	Lens-PC Housing-PA66	Lens-PC Cover-ABS	Lens-PC Housing-ABS	Lens-PC Cover-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Layers	3 Layers	2-3 Layers	1-5 Layers	4 Layers	1-5 Layers	1-5 Layers
Light source & Operation	Bulb Steady/Flashing	●	●	●	●	●
LED Steady/Flashing	●	●	●	●	●	●
Sound & Volume	1 buzzer sound	Max.95dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m
Signal sounds					Max.85dB at 1m	Max.85dB at 1m
Layer color change	No	No	Yes	No	Yes	Yes
Mount bracket	Direct mount, Pole mount	Wall mount	Wall mount	Wall mount	Direct mount	Pole mount
Bracket	LB24, LW24, QZ24, SZ24, QL24, SL24	-	-	-	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18
Protection rating	IP65	IP55	IP54	IP55	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)
Usage place	Indoor/Outdoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use
Certificates	CE	CE, UL	CE, UL	CE	CE, UL	CE, UL
Customization	-	Customized color combination, 2 buzzer sounds, Transparent inner lens	Customized color combination	-	2 buzzer sounds, Wall mount bracket, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Pole length adjustment, AC each layer power supplied, DC24V UL listed
Transistor	-	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type
Page	P40-41	P42	P44	P46	P58	P59

References for Signal Tower Lights



Model number	ST56MEL	ST56EL	ST56ML	ST56L	ST80MEL	ST80EL
Voltage	AC/DC12V, AC/DC24V AC110V, AC220V	AC/DC12V, AC/DC24V AC110V, AC220V	AC/DC12V, AC/DC24V AC110V, AC220V	AC/DC12V, AC/DC24V AC110V, AC220V	AC/DC12V, AC/DC24V AC110V, AC220V	AC/DC12V, AC/DC24V AC110V, AC220V
Outdia	Ø56	Ø56	Ø56	Ø56	Ø80	Ø80
Height	127-352	341-566	157-502	371-716	150-310	287-447
Depth						
Material	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/Flashing	●	●	●	●	●
Sound & Volume	1 buzzer sound	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m
	Signal sounds	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)
Usage place	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use
Certificates	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL
Customization	2 buzzer sounds, Wall mount bracket, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Pole length adjustment, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Wall mount bracket, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Pole length adjustment, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Wall mount bracket, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Pole length adjustment, AC each layer power supplied, DC24V UL listed
Transistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type
Page	P61	P62	P64	P65	P67	P68

Multiple Color LED Signal Tower Lights



Model number	STC45ML	STC45L	STC56ML	STC56L	STC80ML	STC80L
Voltage	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Outdia	Ø45	Ø45	Ø56	Ø56	Ø80	Ø80
Height	106-198	320-412	157-287	371-501	180	317
Depth						
Material	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS
Colors	2-3 Colors	2-3 Colors	2-3 Colors	2-3 Colors	2-3 Colors	2-3 Colors
Light source & Operation	LED Steady/Flashing	●	●	●	●	●
Sound & Volume	1 buzzer sound	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m
Layer color change						
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)
Usage place	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use
Certificates	CE	CE	CE	CE	CE	CE
Customization	2 buzzer sounds, Available in customized color arrangements, Wall mount bracket, M12 connector attached type	2 buzzer sounds, Available in customized color arrangements, Pole length adjustment, M12 connector attached type	2 buzzer sounds, Lens height 40mm, Available in customized color arrangements, Wall mount bracket, M12 connector attached type	2 buzzer sounds, Lens height 40mm, Available in customized color arrangements, Pole length adjustment, M12 connector attached type	2 buzzer sounds, Lens height 40mm, Available in customized color arrangements, Wall mount bracket, M12 connector attached type	2 buzzer sounds, Lens height 40mm, Available in customized color arrangements, Pole length adjustment, M12 connector attached type
Transistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type
Page	P47	P48	P49	P50	P51	P52

References for Signal Tower Lights



Model number	ST80ML	ST80L	STG40ML	STG40L	STG50ML	STG50L
Voltage	AC/DC12V, AC/DC24V AC110V, AC220V	AC/DC12V, AC/DC24V AC110V, AC220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V
Outdia	Ø80	Ø80	Ø40	Ø40	Ø50	Ø50
Height	180-460	317-597	106-331	334-559	106-314	334-542
Depth						
Material	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/Flashing	●	●	●	●	●
Sound & Volume	1 buzzer sound	Max.90dB at 1m	Max.90dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Signal sounds	Max.85dB at 1m	Max.85dB at 1m				
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18
Protection rating	IP23(Buzzer type) IP44(Standard)	IP23(Buzzer type) IP44(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)
Usage place	Indoor Use	Indoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use
Certificates	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL
Customization	2 buzzer sounds, Wall mount bracket, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Pole length adjustment, AC each layer power supplied, DC24V UL listed	2 buzzer sounds, Wall mount bracket, DC24V UL listed, M12 connector attached type	Pole length adjustment, DC24V UL listed, M12 connector attached type	2 buzzer sounds, Wall mount bracket, DC24V UL listed, M12 connector attached type	Pole length adjustment, DC24V UL listed, M12 connector attached type
Transistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type
Page	P70	P71	P77	P78	P79	P80



Model number	STG60ML	STG60L	QT56MCL	EST56L	MTG / MTC / MTR	STB45ML-NEC
Voltage	DC12V, DC24V, AC110V-220V	DC12V, DC24V, AC110V-220V	DC24V	DC24V, AC220V	DC24V, AC110V-220V	DC24V
Outdia	Ø60	Ø60	Ø45	Ø56	Ø50, 60, 70	Ø60
Height	106-314	333-541	276-312	193-273	(Refer to products specifications)	270
Depth					(Refer to products specifications)	-
Material	Lens-AS, Housing-ABS	Lens-AS, Housing-ABS	Lens-PC, Housing-AL	Lens-AS, Housing-ABS, Pole-AL	(Refer to products specifications)	Lens-PC, Housing-PC
Layers/Colors	1-5 Layers	1-5 Layers	7 Colors	3 Layers	1-5 Layers	3 Layers
Light source & Operation	LED Steady		●			●
LED Steady/Flashing	●	●		●	●	
Sound & Volume	1 buzzer sound	Max.85dB at 1m	Max.85dB at 1m	Max.90dB at 1m	Max.90dB at 1m(Standard buzzer), Max.100dB at 1m (High-volume buzzer), Max.85dB at 1m (Waterproof buzzer)	Max.83dB at 1m
Layer color change	Yes	Yes			Yes	
Mount bracket	Direct mount	Pole mount	Pole mount	Pole mount	Direct mount, Pole mount, M12 connector attached type	Direct mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	-	LB18, LW18, QZ18, SZ18, QL18, SL18	(Refer to products specifications)	
Protection rating	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP23(Buzzer type) IP44(Standard)	IP23	IP65(Standard, Waterproof buzzer) Non-Waterproof (Standard buzzer, High-volume buzzer)	IP54
Usage place	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor Use	Indoor Use	Indoor/Outdoor Use	Indoor Use
Certificates	CE, UL	CE, UL	CE	CE	CE, UL	INTERTEK(NRTL), IECEX, CE
Customization	2 buzzer sounds, Wall mount bracket, DC24V UL listed, M12 connector attached type	Pole length adjustment, DC24V UL listed, M12 connector attached type	M12 connector attached type	DC12V type products	Pole length adjustment	-
Transistor	NPN/PNP type	NPN/PNP type	PNP type	NPN/PNP type	NPN/PNP type	NPN/PNP type
Page	P81	P82	P54	P75	P113-150	P170-171

References for Signal Tower Lights



Model number	QTG50ML	QTG50L	QTG60ML	QTG60L	QTG70ML	QTG70L
Voltage	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V
Dimension (mm)	Outdia	Ø50	Ø50	Ø60	Ø70	Ø70
	Height	116-364	344-592	126-399	352-625	126-399
	Depth					
Material	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/ Flashing	●	●	●	●	●
Sound & Volume	1 buzzer sound	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)
Usage place	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use
Certificates	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL
Customization	Wall mount bracket, 2 buzzer sounds, High-volume buzzer module, DC24V UL listed, M12 connector attached type	2 buzzer sounds, Pole length adjustment, High-volume buzzer module, DC24V UL listed, M12 connector attached type	2 buzzer sounds, Wall mount bracket, High- volume buzzer module, DC24V UL listed, M12 connector attached type	2 buzzer sounds, Pole length adjustment, High-volume buzzer module, DC24V UL listed, M12 connector attached type	2 buzzer sounds, Wall mount bracket, High- volume buzzer module, DC24V UL listed, M12 connector attached type	2 buzzer sounds, Pole length adjustment, High-volume buzzer module, DC24V UL listed, M12 connector attached type
Transistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type
Page	P86	P87	P88	P89	P90	P91



Model number	QTC50ML	QTC50L	QTC60ML	QTC60L	QTC70ML	QTC70L
Voltage	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V
Dimension (mm)	Outdia	Ø50	Ø50	Ø60	Ø70	Ø70
	Height	116-364	344-592	126-399	352-625	126-399
	Depth					
Material	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/Flashing	●	●	●	●	●
Sound & Volume	1 buzzer sound	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)
Usage place	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use
Certificates	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL
Customization	Wall mount bracket, 2 buzzer sounds, High-volume buzzer module, DC24V UL listed, M12 connector attached type	2 buzzer sounds, Pole length adjustment, High-volume buzzer module, DC24V UL listed, M12 connector attached type	Wall mount bracket, 2 buzzer sounds, High-volume buzzer module, DC24V UL listed, M12 connector attached type	2 buzzer sounds, Pole length adjustment, High-volume buzzer module, DC24V UL listed, M12 connector attached type	Wall mount bracket, 2 buzzer sounds, High-volume buzzer module, DC24V UL listed, M12 connector attached type	2 buzzer sounds, Pole length adjustment, High-volume buzzer module, DC24V UL listed, M12 connector attached type
Transistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type
Page	P94	P95	P96	P97	P98	P99

References for Signal Tower Lights



Model number	QTR50ML	QTR50L	QTR60ML	QTR60L	QTR70ML	QTR70L
Voltage	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V
Outdia	Ø50	Ø50	Ø60	Ø60	Ø70	Ø70
Height	116-364	344-592	126-399	352-635	126-399	274-557
Depth						
Material	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/Flashing	●	●	●	●	●
Sound & Volume	1 buzzer sound	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)
Usage place	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use
Certificates	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL	CE, UL
Customization	Wall mount bracket, 2 buzzer sounds, High-volume buzzer module, DC24V UL listed, M12 connector attached type	2 buzzer sounds, Pole length adjustment, High-volume buzzer module, DC24V UL listed, M12 connector attached type	Wall mount bracket, 2 buzzer sounds, High-volume buzzer module, DC24V UL listed, M12 connector attached type	2 buzzer sounds, Pole length adjustment, High-volume buzzer module, DC24V UL listed, M12 connector attached type	Wall mount bracket, 2 buzzer sounds, High-volume buzzer module, DC24V UL listed, M12 connector attached type	2 buzzer sounds, Pole length adjustment, High-volume buzzer module, DC24V UL listed, M12 connector attached type
Transistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type
Page	P102	P103	P104	P105	P106	P107

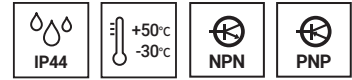


Model number	ST45ML-Ex	STB45ML-Ex	QTEX	QTEXB	QST50(B)-Ex	QST50(B)T-Ex
Voltage	DC12V DC24V	DC12V DC24V	DC12V, DC24V AC95V-AC230V	DC12V, DC24V AC95V-AC230V	DC24V AC110V-230V	DC24V AC110V-230V
Outdia	Ø45	Ø45	Ø144	Ø144	Ø50	Ø50
Height	115-275	149-309	472(Direct mount), 457(Wall mount)	472(Direct mount), 457(Wall mount)	430-486	488-544
Depth	-	-	155(Wall mount)	155(Wall mount)	-	-
Material	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-Tempered glass Housing-Al	Lens-Tempered glass Housing-Al	Lens-PC, Light diffusion Lens-PC, Housing-Al, Cover-Al	Lens-PC, Light diffusion Lens-PC, Housing-Al, Cover-Al
Light source & Operation	LED Steady/Flashing	●(Steady)	●	●	●	●
Sound & Volume	1 buzzer sound	-	Max.83dB at 1m	-	Max.90dB at 1m	Max.90dB at 1m
Mount bracket	Direct mount	Direct mount	Self mount, Wall mount	Self mount, Wall mount	Direct mount	Direct mount
Cable entry	-	-	3/4" NPT 2WAY	3/4" NPT 2WAY	M16xP1.5	M20xP1.5, 1/2" NPT
Protection rating	IP54	IP54	IP66	IP66	IP66/IP67	IP66/IP67
Usage place	Indoor Use	Indoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use
Usage area	ZONE 2	ZONE 2	ZONE 1, ZONE 2, ZONE 21	ZONE 1, ZONE 2, ZONE 21	ZONE1,ZONE2, ZONE21, ZONE22	ZONE1,ZONE2, ZONE21, ZONE22
Certificates	KCs, CCC, NEPSI	KCs, CCC, NEPSI, CE	IECEX, ATEX, KCs	IECEX, ATEX, KCs, TIIS	IECEX, ATEX, KCs CCC, NEPSI	IECEX, ATEX, KCs CCC, NEPSI
Customization	-	-	Explosion proof cable gland, Cable entry 1/2"NPT, M20X1.5, M25X1.5, 1/2"PF	Explosion proof cable gland, Cable entry 1/2"NPT, M20X1.5, M25X1.5, 1/2"PF	-	Explosion proof cable gland, Cable entry 3/4" NPT
Transistor	NPN/ PNP type	NPN/ PNP type	PNP type	PNP type	PNP type	PNP type
Page	P168	P169	P172-175	P172-175	P176-177	P178-179

References for Signal Tower Lights



Model number	QT50ML	QT50L	QT70ML	QT70L	QTG60ML-WV	QTG60L-WV
Voltage	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC24V	DC24V
Outdia	Ø50	Ø50	Ø70	Ø70	Ø60	Ø60
Height	83-255	297-469	98-322	237-461	210-410	425-625
Depth						
Material	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC Housing-PC	Lens-PC, Housing-ABS	Lens-PC, Housing-ABS
Layers/Colors	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady	●	●	●	●	●
	LED Steady/Flashing	●	●	●		
	LED Strobe	●	●	●		
	LED Simulated revolving	●	●	●		
Sound & Volume	1 buzzer sound	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m		
	Signal sounds	-	-	-	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Pole mount	Direct mount	Pole mount	Direct mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18
Protection rating	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP54(Buzzer type) IP65(Standard)	IP23	IP23
Usage place	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor Use	Indoor Use
Certificates	CE	CE	CE	CE	CE	CE
Customization	Beige color, Wall mount bracket, LED Strobe, LED Simulated revolving	Beige color, Pole length adjustment, LED Strobe, LED Simulated revolving	Beige color, Wall mount bracket, LED Strobe, LED Simulated revolving	Beige color, Pole length adjustment, LED Strobe, LED Simulated revolving	Wall mount bracket	-
Transistor	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type	NPN/ PNP type		
Page	P155-156	P157-158	P163-164	P165-166	P184	P185



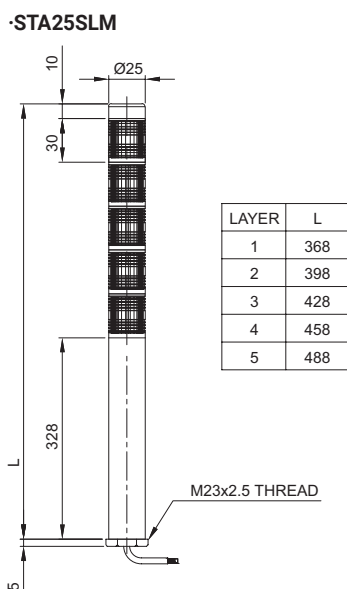
STA25SLM

Wiring Instructions

- External power line/External signal line
- UL1007 AWG22(0.3sq) 400mm

Technical Diagram

Units : mm



PRODUCT SPECIFICATION

STA25SLM

Materials Lens-AS, Housing-Al

Ambient operating temperature -30°C to +50°C

Protection rating IP44

- 25mm direct mount tower lights
- Aesthetically pleasing design with aluminum housing
- Excellent visibility by using a high brightness LED with a special diffusion lens
- Lens maintains a semi-transparent color when not emitting the specific color of the signal under operation.
- Steady mode only with fixed user selected color arrangement (can operate flashing mode with External Contact)

STA25SLM Ø25mm Direct mount, LED Steady

Model number	Layers	Voltage	Certificates	Weight	Color
STA25SLM Steady	1	DC12V DC24V AC110V AC220V	CE UL	0.19kg	R-Red
	2	DC12V DC24V AC110V AC220V		0.21kg	R-Red G-Green
	3	DC12V DC24V AC110V AC220V		0.23kg	R-Red A-Amber G-Green
	4	DC12V DC24V AC110V AC220V		0.24kg	R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V AC110V AC220V		0.26kg	R-Red A-Amber G-Green B-Blue W-White

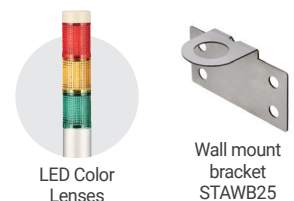
※ CE Compliant: DC24V, UL Listed: DC24V

Light source current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current(1 layer)	70mA	35mA	25mA	20mA

Customization

- Same lens color with LED (LED Color Lenses)
- Wall mount bracket options : Used for mounting on the vertical surface



Ordering Specifications

STA25SLM	-	3	-	220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
STA25SLM		1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		12-DC12V 24-DC24V 110-AC110V 220-AC220V		R-Red A-Amber G-Green B-Blue W-White



PRODUCT SPECIFICATION

STA35SL

Materials Lens-AS, Housing-ABS

Ambient operating temperature -30°C to +50°C

Protection rating IP44

- Ø35mm direct mount tower lights
- Excellent visibility by using a high brightness LED with a special diffusion lens
- Lens maintains a semi-transparent color when not emitting the specific color of the signal under operation
- Steady mode only with fixed user selected color arrangement (can operate flashing mode with External Contact)
- Easy mounting with the bolts/ screws located at the bottom of the product

STA35SL Ø35mm Direct mount, LED Steady

Model number	Layers	Voltage	Certificates	Weight	Color
STA35SL Steady	1	DC12V DC24V	CE	0.60kg	● R-Red
	2	DC12V DC24V		0.85kg	● R-Red ● G-Green
	3	DC12V DC24V		1.05kg	● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V		1.30kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V		1.53kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

※ CE Compliant: DC24V

Light source current(based on 1 layer)

Voltage	DC12V	DC24V
Light source current(1 layer)	100mA	50mA

Customization

- Wall mount bracket options : Used for mounting on the vertical surface



Wall mount bracket
STAWB25

Ordering Specifications

STA35SL	-	3	-	24	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
STA35SL		1-1 Layer		12-DC12V		● R-Red
		2-2 Layers		24-DC24V		● A-Amber
		3-3 Layers				● G-Green
		4-4 Layers				● B-Blue
		5-5 Layers				○ W-White



STA35SL

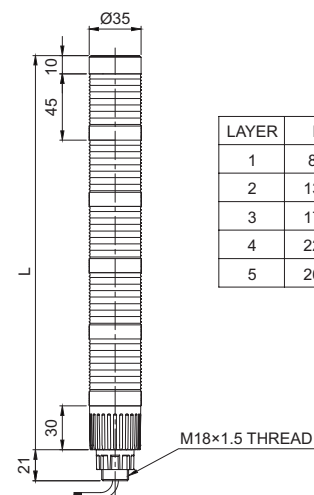
Wiring Instructions

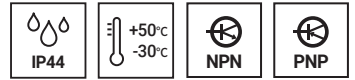
- External power line/External signal line
- UL1007 AWG22(0.3sq) 400mm

Technical Diagram

Units : mm

· STA35SL





STA35SLM

PRODUCT SPECIFICATION

STA35SLM

Materials Lens-AS, Housing-Al

Ambient operating temperature -30°C to +50°C

Protection rating IP44

- Ø35mm direct mount tower lights
- Aesthetically pleasing design with aluminum housing
- Fixed layer designs provides superior durability
- Excellent visibility by using a high brightness LED with a special diffusion lens
- Lens maintains a semi-transparent color when not emitting the specific color of the signal under operation
- Steady mode only with fixed user selected color arrangement (can operate flashing mode with External Contact)
- Easy mounting with the bolts/ screws located at the bottom of the product

STA35SLM Ø35mm Direct mount, LED Steady

Model number	Layers	Voltage	Certificates	Weight	Color
STA35SLM Steady	1	DC12V DC24V	CE	0.38kg	R-Red
	2	DC12V DC24V		0.40kg	R-Red G-Green
	3	DC12V DC24V		0.42kg	R-Red A-Amber G-Green
	4	DC12V DC24V		0.45kg	R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V		0.48kg	R-Red A-Amber G-Green B-Blue W-White

※ CE Compliant: DC24V

Light source current(based on 1 layer)

Voltage	DC12V	DC24V
Light source current(1 layer)	100mA	50mA

Customization

- Wall mount bracket options : Used for mounting on the vertical surface



Wall mount bracket STAWB25

Ordering Specifications

STA35SLM	-	3	-	24	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
STA35SLM		1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		12-DC12V 24-DC24V		R-Red A-Amber G-Green B-Blue W-White

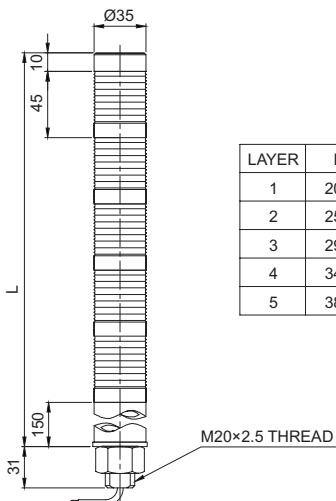
Wiring Instructions

- External power line/External signal line
- UL1007 AWG22(0.3sq) 400mm

Technical Diagram

Units : mm

·STA35SLM



LAYER	L
1	205
2	250
3	295
4	340
5	385



PRODUCT SPECIFICATION

STA45SLM | STA45SLMP

Materials Lens-Acrylic, Inner lens-AS, Housing-Al
Ambient operating temperature -30°C to +50°C
Volume Max.90dB at 1m
Protection rating
 Standard type-IP44, Built-in buzzer type-IP23

- Ø45mm direct mount/pole mount tower lights
- Aluminum housing displays a unique metallic luster that defines a high class product
- Excellent visibility by using a high brightness LED with a special diffusion lens
- Lens maintains a semi-transparent color when not emitting the specific color of the signal under operation
- Steady mode only with fixed user selected color arrangement (can operate flashing mode with External Contact)
- Easy mounting with the bolts/screws located at the bottom of the product
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment.

STA45SLM Ø45mm Direct mount, LED Steady

Model number	Layers	Voltage	Certificates	Weight	Color
STA45SLM Steady STA45SLM-BZ Steady w/ built-in buzzer	1	DC12V DC24V	CE UL	0.50kg	● R-Red
	2	DC12V DC24V		0.54kg	● R-Red ● G-Green
	3	DC12V DC24V		0.58kg	● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V		0.63kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V		0.68kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

※ CE Compliant: DC24V, UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

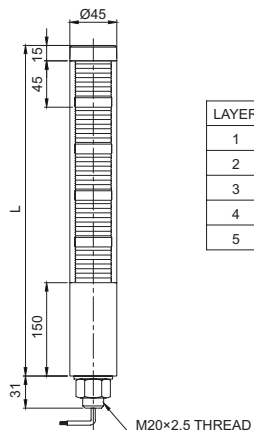
Voltage	DC12V	DC24V
Light source current(1 layer)	100mA	50mA
Buzzer current	40mA	75mA

Technical Diagram

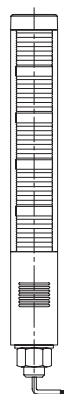
·STA45SLM

·STA45SLM-BZ

Units : mm



LAYER	L
1	198
2	243
3	288
4	333
5	378



STA45SLM Series

Customization

- Wall mount bracket options :
Used for mounting on the vertical surface



Wall mount bracket
STAWB45

STA45SLMP



STA45SLMP Series

STA45SLMP Ø45mm Pole mount, LED Steady

Model number	Layers	Voltage	Certificates	Weight	Color
STA45SLMP Steady STA45SLMP-BZ Steady w/ built-in buzzer	1	DC12V DC24V	CE UL	0.56kg	R-Red
	2	DC12V DC24V		0.60kg	R-Red G-Green
	3	DC12V DC24V		0.64kg	R-Red A-Amber G-Green
	4	DC12V DC24V		0.69kg	R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V		0.74kg	R-Red A-Amber G-Green B-Blue W-White

※ CE Compliant: DC24V, UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V
Light source current(1 layer)	100mA	50mA
Buzzer current	40mA	75mA

Mounting bracket

Standard	LB18	LW18	QZ18
Steel	Steel	ABS	ABS
SZ18	QL18	SL18	
Al	ABS	Al	

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Wiring Instructions

- External power line/External signal line
- UL1007 AWG22(0.3sq) 400mm

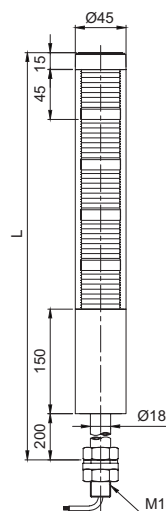
Customization

- Customized pole length available

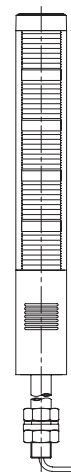
Technical Diagram

Units : mm

·STA45SLMP



·STA45SLMP-BZ



LAYER	L
1	398
2	443
3	488
4	533
5	578

Ordering Specifications

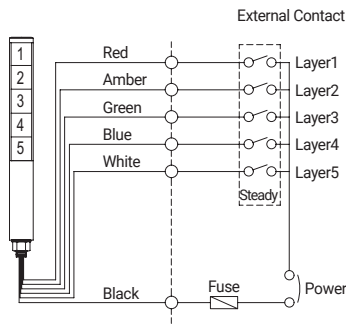
STA45SLMP	-	3	-	24	-	RAG	-	QZ18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
STA45SLM		1-1 Layer		12-DC12V		R-Red		None-Standard
STA45SLM-BZ		2-2 Layers		24-DC24V		A-Amber		Bracket
STA45SLMP		3-3 Layers				G-Green		-LB18 -LW18
STA45SLMP-BZ		4-4 Layers				B-Blue		-QZ18 -SZ18
		5-5 Layers				W-White		-QL18 -SL18

Wiring Instructions

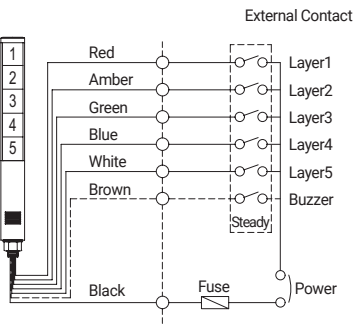
- STA25SLM, STA35SL, STA35SLM and STA45SLM can be wired by using both External Contact and transistor.
- In case of wiring by transistor, please make sure if it is NPN type or PNP type. Please carefully follow wiring instructions below.

External Contact

·STA25SLM-DC
·STA35SL-DC / STA35SLM-DC



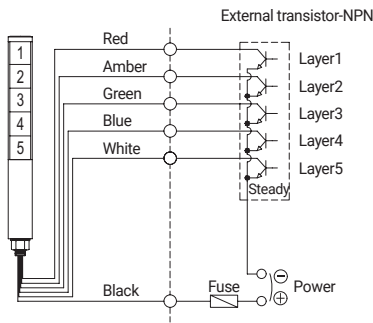
·STA45SLM / ST45SLMP-DC



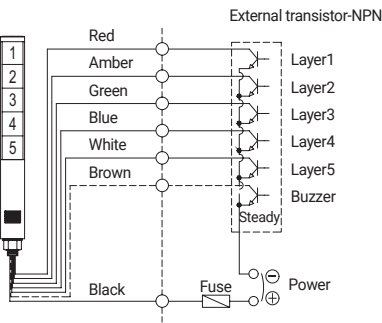
Transistor(I/O)

·STA25SLM-DC
·STA35SL-DC / STA35SLM-DC

NPN
Transistor

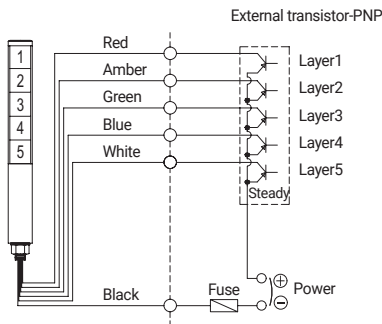


·STA45SLM / ST45SLMP-DC

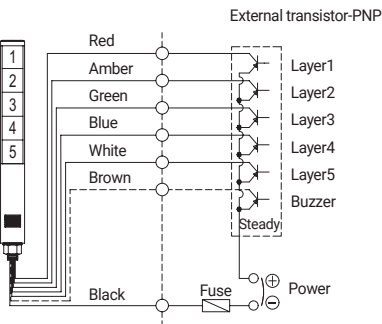


·STA25SLM-DC
·STA35SL-DC / STA35SLM-DC

PNP
Transistor



·STA45SLM / ST45SLMP-DC



Wiring Instructions

- External power line/External signal line - UL1007 AWG22(0.3sq) 400mm

Transistor Rating

Model number	NPN or PNP
Withstanding voltage	$V_c \geq 35V$
Current	$I_c \geq 300mA$
Leakage current	$0.1mA \geq I_L$

QTA56L



QTA56L

Built-in buzzer output
holes formed on the
housing of the product



PRODUCT SPECIFICATION

QTA56L

Materials Lens-PC, Housing-Al, bracket-Al
Ambient operating temperature -30°C to +60°C
Volume Max.85dB at 1m
Protection rating
 Standard type-IP44, Built-in buzzer type-IP23

- High brightness LED with hexagon type mounting pole
- Elegant design with hexagon shaped metal housing
- Aluminum housing provides excellent durability
- Folding type mount bracket can be utilized in various environments
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment.
- M12 connector type is optionally available(Female M12 connector is not provided)

QTA56L LED Steady Tower Lights

Model number	Layers	Voltage	Certificates	Weight	Color
QTA56L Steady	3	DC24V	CE	0.45kg	● R-Red
QTA56L-BZ Steady w/ built-in buzzer				0.48kg	● A-Amber ● G-Green

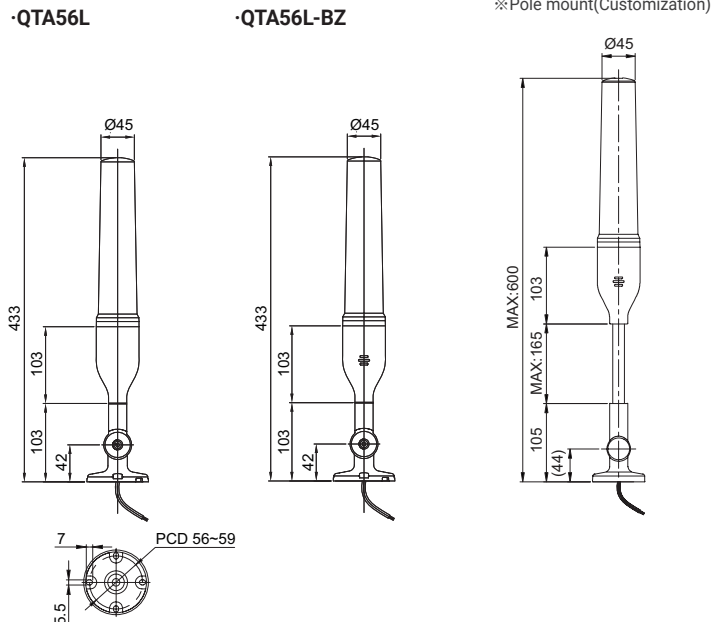
※ CE Compliant: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC24V
Light source current(1 layer)	45mA
Buzzer current	75mA

Technical Diagram

Units : mm



Customization

- Pole mount
- M12 connector attached type

Ordering Specifications

QTA56L	-	3	-	24	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QTA56L QTA56L-BZ		3-3 Layers		24-DC24V		● R-Red ● A-Amber ● G-Green



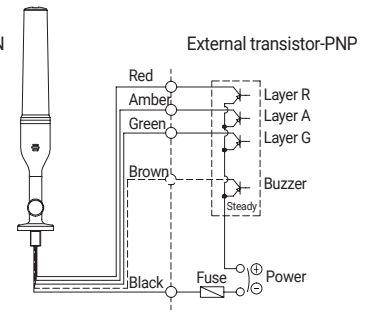
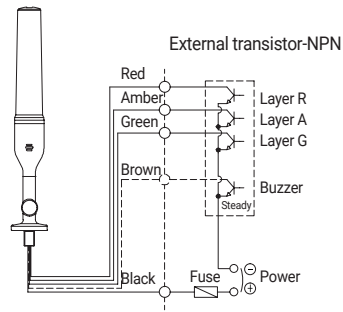
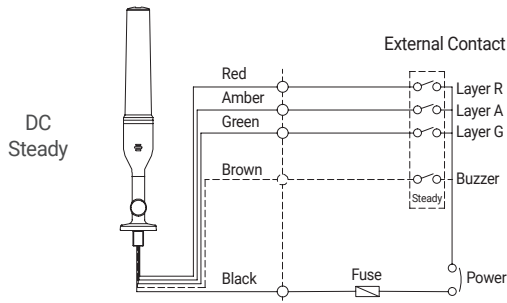
Wiring Instructions

- QTA56L can be wired by using both External Contact and transistor
- In case of wiring by transistor, please make sure if it is NPN type or PNP type. Please carefully follow wiring instructions below
- Product can be wired regardless of polarity.

External Contact

Transistor

·QTA56L



- External power line/External signal line - UL1007 AWG22(0.3sq) 400mm

QAT80L / QAT80ML



QAT80L

Built-in buzzer output holes formed on the housing of the product



PRODUCT SPECIFICATION

QAT80L | QAT80ML

Materials Lens-PC, Housing-PA66, Pole-Al
Ambient operating temperature $-30^{\circ}\text{C} \leq T_{\text{as}} \leq +50^{\circ}\text{C}$
Volume Max.95dB at 1m
Protection rating IP65
Flashing rate 60-80/min
Compliant with RoHS directive

- LED Steady/Flashing Tower Lights
- Long product lifetime of over 20,000 hours with the application of a high intensity multiple color LED light source
- Built in 2 tone buzzer, Sound output according to LED color(Max.95dB at 1m).
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment.



QAT80L LED Steady/Flashing Tower Lights

Model number	Layers	Voltage	Certificates	Weight	Color
QAT80L Steady	3	DC12V-24V	CE	0.50Kg	
QAT80L-BZ Steady w/ built-in buzzer				1.10Kg	
QAT80LF Steady/Flashing				0.50Kg	
QAT80LF-BZ Steady/Flashing w/ built-in buzzer				1.10Kg	

※ DC type model has a free-voltage range of 10V-30V.

※ CE Compliant: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V-24V
Light source current(1 layer)	Max.200mA
Buzzer current	Max.50mA

Selectable sound patterns

Built-in sound	Sound	Channel	Volume
1 buzzer sound	prolonged (beep)	Ch1	Max.95dB
2 buzzer sound	staccato (beep, beep, beep)	Ch2	

Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

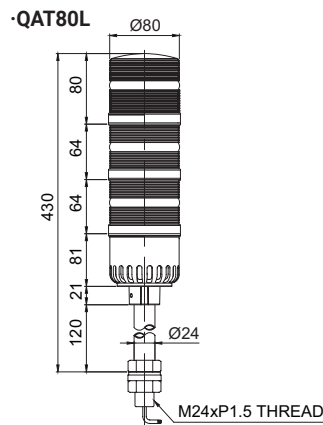
※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

QAT80L	-	3	-	12/24	-	RAG	-	LW24
[Model number] QAT80L QAT80L-BZ QAT80LF QAT80LF-BZ		[Layers] 3-3 Layers		[Voltage] 12/24-DC12V-24V		[Color] R-Red A-Amber G-Green		[Bracket] · None-Standard · Bracket · LB24 · LW24 · QZ24 · SZ24 · QL24 · SL24

Technical Diagram

Units : mm





QAT80ML LED Steady/Flashing Tower Lights

Model number	Layers	Voltage	Certificates	Weight	Color
QAT80ML Steady	3	DC12V-24V		0.50Kg	 R-Red  A-Amber  G-Green
QAT80ML-BZ Steady w/ built-in buzzer				0.62Kg	
QAT80MLF Steady/Flashing				0.50Kg	
QAT80MLF-BZ Steady/Flashing w/ built-in buzzer				0.62Kg	

※ DC type model has a free-voltage range of 10V-30V.

※ CE Compliant: DC24V



QAT80ML

Light source/buzzer current(based on 1 layer)

Voltage	DC12V-24V
Light source current(1 layer)	Max.200mA
Buzzer current	Max.50mA

Built-in buzzer output
holes formed on the
housing of the product

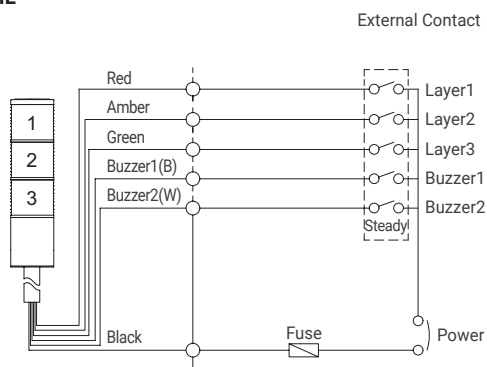


Selectable sound patterns

Built-in sound	Sound	Channel	Volume
1 buzzer sound	prolonged (beep)	Ch1	Max.95dB
2 buzzer sound	staccato (beep, beep, beep)	Ch2	

Wiring Instructions(External Contact)

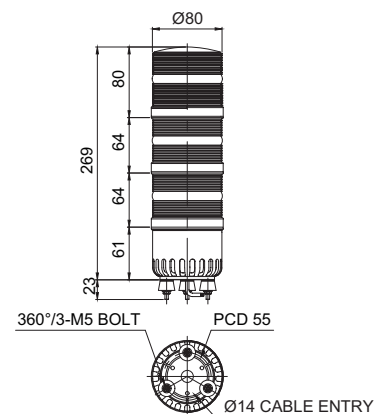
·QAT80L / QAT80ML



Technical Diagram

Units : mm

·QAT80ML



Ordering Specifications

QAT80ML	-	3	-	12/24	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QAT80ML QAT80ML-BZ QAT80MLF QAT80MLF-BZ		3-3 Layers		12/24-DC12V-24V		 R-Red  A-Amber  G-Green

SWT Series



SWT Series



SWTE Series

PRODUCT SPECIFICATION

SWT | SWTE

Materials Lens-PC, Cover-ABS, Housing-ABS, Filter lens-PC

Ambient operating temperature -30°C to + 50°C

Volume Max.90dB at 1m

Protection rating IP55

Standard color arrangements

2 Colors : ● Red-R ● Green-G

3 Colors : ● Red-R ● Amber-A ● Green-G

Flashing rate 60-80/min

Compliant with RoHS directive

- Wall mount model that minimizes the chance of damage from moving obstacles or personnel
- Clear light signals emitted by adding separate color diffusion lenses beneath the outer transparent lens
- LED light distribution structure that directly radiates light to the user provides excellent visibility
- Can be used outdoors with tightly sealed structure
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment.



SWT / SWTE Wall Mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
SWT(E)L Steady	2	DC12V-24V	CE	0.27kg	● R-Red ● G-Green
SWT(E)L-BZ		AC110V		0.42kg	
Steady w/built-in buzzer		AC220V		0.42kg	
SWT(E)LF	3	DC12V-24V	UL	0.30kg	● R-Red ● A-Amber ● G-Green
Steady/Flashing		AC110V		0.45kg	
SWT(E)LF-BZ		AC220V		0.45kg	
Steady/Flashing/w built-in buzzer					

※ DC type model has a free-voltage range of 10V-30V.

※ CE Compliant: DC12V-24V, UL Listed: DC24V

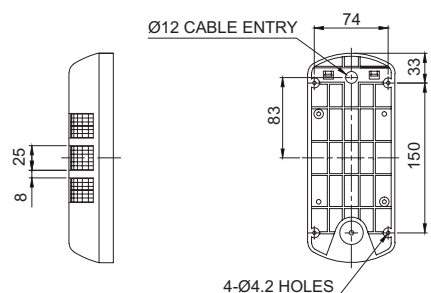
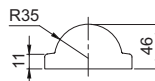
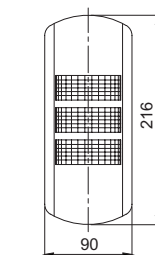
Light source/buzzer current(based on 1 layer)

Voltage	DC12V-24V	AC110V	AC200V
Light source current(1 layer)	Max.60mA	35mA	20mA
Buzzer current	Max.35mA	35mA	20mA

Technical Diagram

Units : mm

·SWT / SWTE

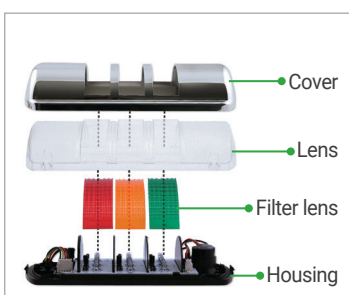


Customization

- Customized color combination
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep)buzzer output available
- Transparent inner lens
- DC24V voltage UL listed product

SWT Lens Configuration

Adding a separate color filter lens inside the outer lens helps to provide a clear signal.



Ordering Specifications

SWTL	3	220	RAG
[Model number]	[Layers]	[Voltage]	[Color]
SWTL	2-2Layers	12/24-DC12V-24V	● R-Red
SWTLF	3-3 Layers	110-AC110V	● A-Amber
SWTL-BZ		220-AC220V	● G-Green
SWTLF-BZ			
SWTEL			
SWTELF			
SWTEL-BZ			
SWTELF-BZ			



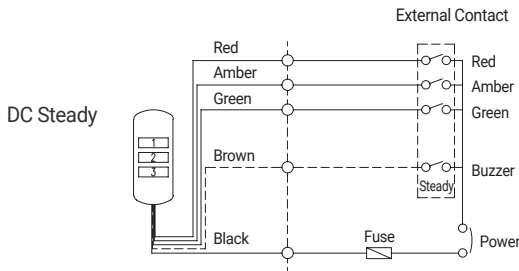
Wiring Instructions

- SWT Series can be wired by using both External Contact and transistor
- In case of wiring by transistor, please make sure if it is NPN type or PNP type. Please carefully follow wiring instructions below
- Product can be wired regardless of polarity

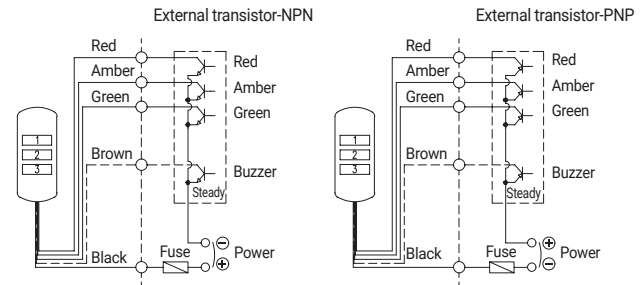
External Contact

Transistor

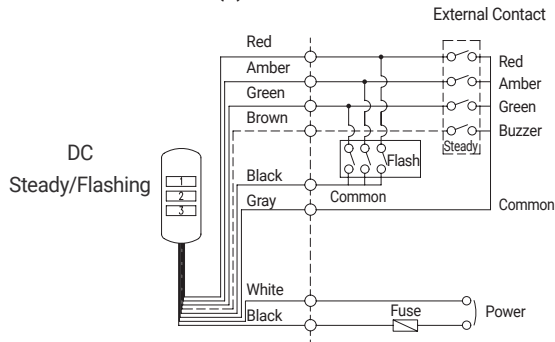
·SWT(E)L-DC



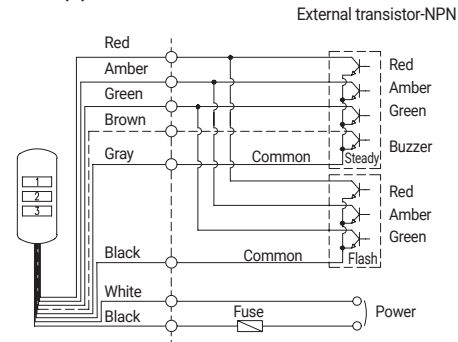
·SWT(E)L-DC



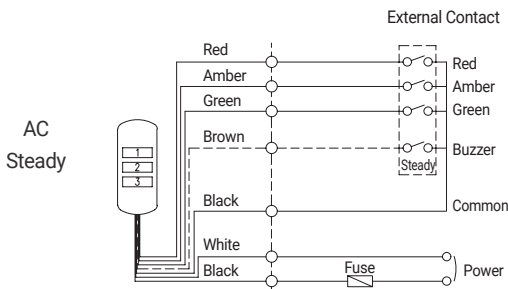
·SWT(E)LF-DC



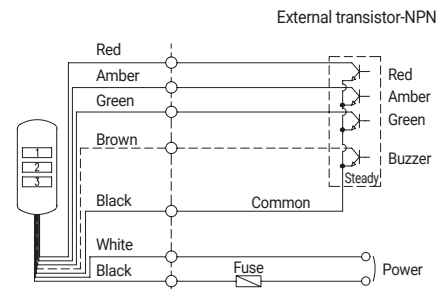
·SWT(E)LF-DC



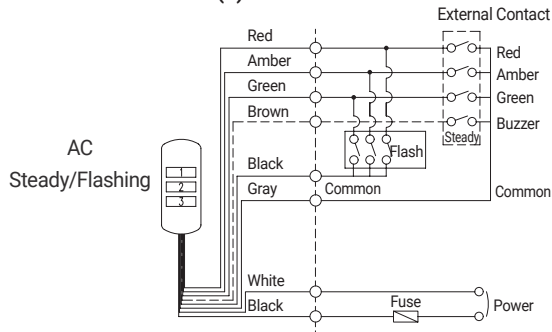
·SWT(E)L-AC



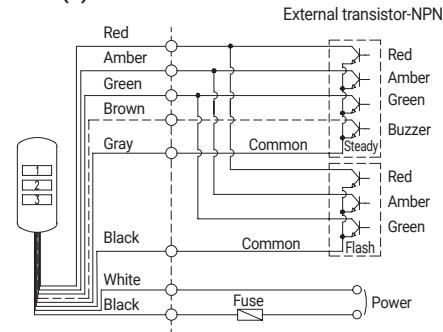
·SWT(E)L-AC



·SWT(E)LF-AC



·SWT(E)LF-AC



- DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm

QWT Series



QWT Series

PRODUCT SPECIFICATION

QWT

Materials Lens-PC, Housing-ABS

Ambient operating temperature $-30^{\circ}\text{C} \leq T_{\text{as}} \leq +50^{\circ}\text{C}$

Volume Max.85dB at 1m

Protection rating IP54

Flashing rate 60-80/min

Compliant with RoHS directive

- Wall mount model that minimizes the chance of breakage from moving obstacles
- The use of a circular lens design for the product improves visibility at the sides
- LED light distribution structure that directly radiates light to the user provides excellent visibility
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment.

QWT Wall Mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QWTL Steady	1	DC12V DC24V AC110V-220V	CE UL	0.34kg 0.34kg 0.36kg	● R-Red
	2	DC12V DC24V AC110V-220V		0.41kg 0.41kg 0.43kg	● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		0.48kg 0.48kg 0.50kg	● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		0.55kg 0.55kg 0.57kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		0.62kg 0.62kg 0.64kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
QWTL-BZ Steady w/built-in buzzer					
QWTLF Steady/Flashing					
QWTLF-BZ Steady/Flashing w/built-in buzzer					

※ AC type model has a free-voltage range of 100V-240V.

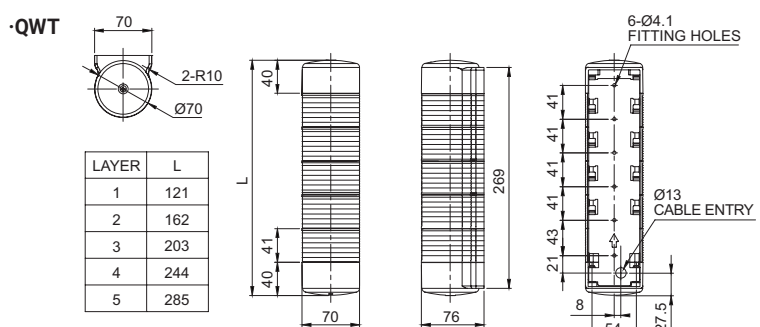
※ CE Compliant: DC24V, UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	75mA	50mA	Max.30mA
Buzzer current	50mA	115mA	Max.15mA

Technical Diagram

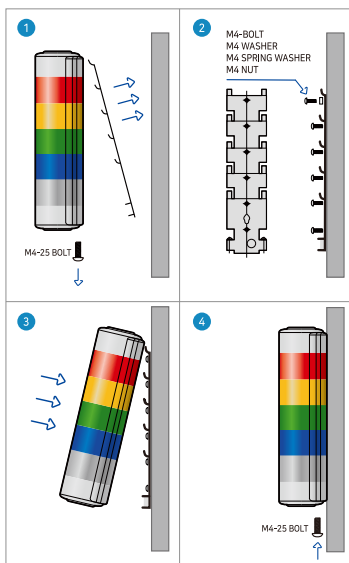
Units : mm



Ordering Specifications

QWTL	3	110/220	RAG
[Model number]	[Layers]	[Voltage]	[Color]
QWTL	1-1 Layer	12-DC12V	● R-Red
QWTL-BZ	2-2 Layers	24-DC24V	● A-Amber
QWTLF	3-3 Layers	110/220	● G-Green
QWTLF-BZ	4-4 Layers	-AC110V-220V	● B-Blue
	5-5 Layers		○ W-White

Mount bracket



- Loosen the two M4 bolts on the bottom of the bracket and remove the body
- Attach the bracket to the wall with screws into the mounting holes
- Hang the unit onto the bracket
- After attaching the unit to the bracket, secure the two pieces together with the M4 bolts at the bottom of the product

Customization

- Customized color combination



Wiring Instructions

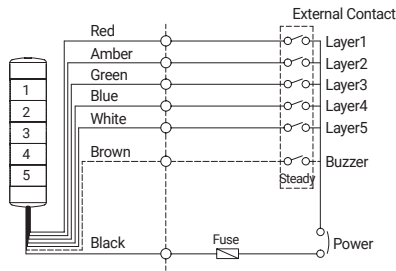
- QWT Series can be wired by using both External Contact and transistor.
- In case of wiring by transistor, please make sure if it is NPN type or PNP type. Please carefully follow wiring instructions below.
- Product can be wired regardless of polarity.

External Contact

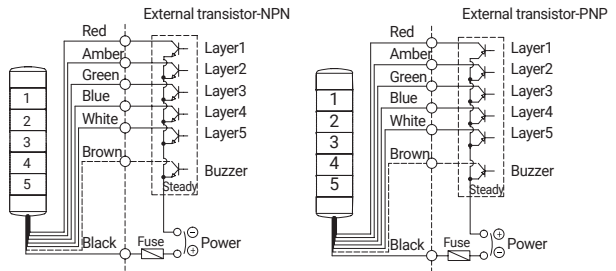
Transistor

·QWTL-DC

DC
Steady

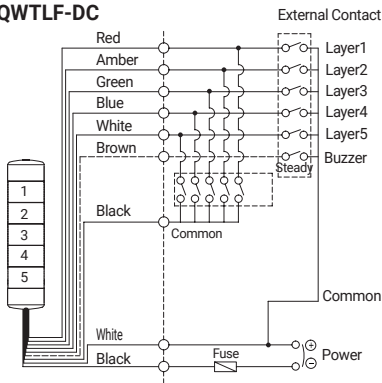


·QWTL-DC

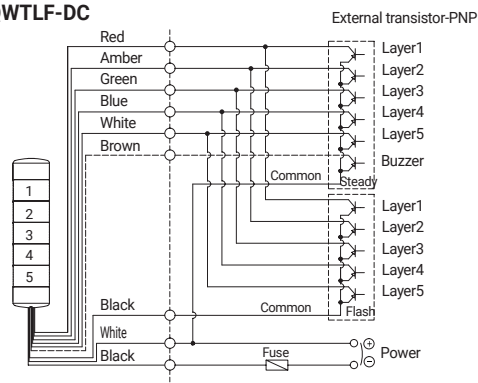


·QWTLF-DC

DC
Steady/Flashing

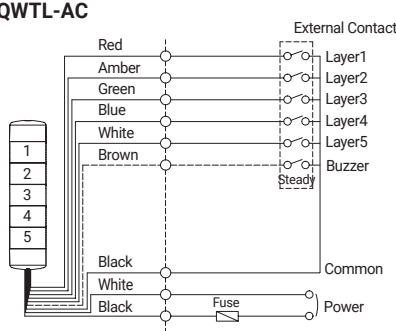


·QWTLF-DC

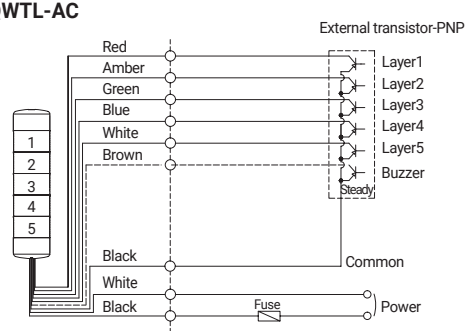


·QWTL-AC

AC
Steady

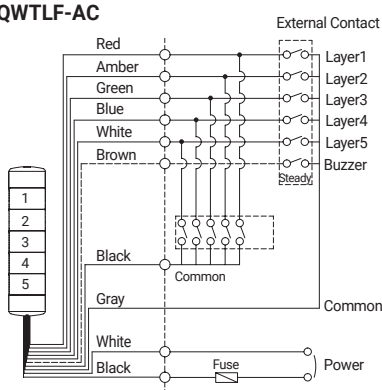


·QWTL-AC

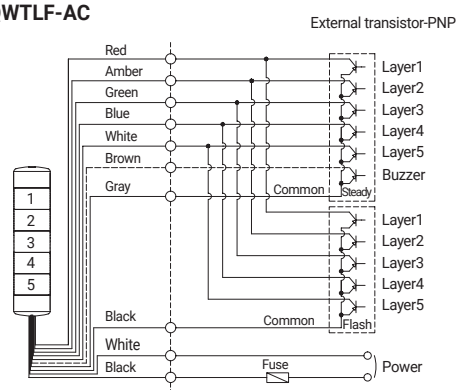


·QWTLF-AC

AC
Steady/Flashing



·QWTLF-AC



- DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm



MWTL

PRODUCT SPECIFICATION

MWTL

Materials Lens-PC, Cover-ABS, Housing-ABS

Ambient operating temperature -30°C to + 50°C

Volume Max.90dB at 1m

Protection rating IP55

Standard color arrangements

● Red-R ● Amber-A ● Green-G ● Blue-B

Flashing rate 60-80/min

- Wall mount model that minimizes the chance of damage from moving obstacles or personnel
- LED light distribution structure that directly radiates light to the user provides excellent visibility
- Can be used outdoors with tightly sealed structure
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment.



MWTL Wall Mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
MWTL Steady					
MWTL-BZ Steady w/built-in buzzer					
MWTLF Steady/Flashing	4	DC24V	CE	0.29kg	● R-Red ● A-Amber ● G-Green ● B-Blue
MWTLF-BZ Steady/Flashing w/ built-in buzzer					

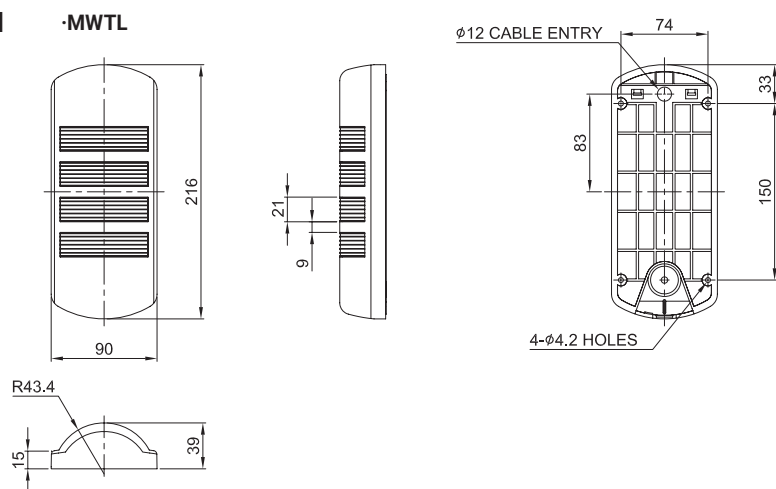
※ CE Compliant: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC24V
Light source current(1 layer)	55mA
Buzzer current	60mA

Technical Diagram

Units : mm



Ordering Specifications

MWTL	-	4	-	24	-	RAGB
[Model number]		[Layers]		[Voltage]		[Color]
MWTL MWTLF MWTL-BZ MWTLF-BZ		4-4 Layers		24-DC24V		● R-Red ● A-Amber ● G-Green ● B-Blue

Ø45mm Multiple Color LED Steady/Flashing Tower Lights

STC45ML



PRODUCT SPECIFICATION

STC45(M)L | STC56(M)L
STC80(M)L

Materials Lens-PC, Housing-ABS, Pole-Al

Ambient operating temperature -30°C to + 60°C

Volume Max.90dB at 1m

Protection rating Standard type-IP44, Built-in buzzer type-IP23

Flashing rate 60-80/min

Compliant with RoHS directive

- Economical tower light model that can deliver two to three signals with one layer
- Long product lifetime of over 20,000 hours with the application of a high intensity multiple color LED light source
- Can select from size of Ø45mm, Ø56mm, and Ø80mm to fit your sophisticated application needs
- A variety of Mounting bracket selections for the pole mount type to fit your location and mounting needs
- Customized 2 buzzer sound type available
- M12 connector type is optionally available(Female M12 connector is not provided)
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment.



STC45ML Series

Built-in buzzer output holes formed on the housing of the product



STC45ML Ø45mm Direct Mount, Multiple Color LED Steady/Flashing

Model number	Colors	Voltage	Certificates	Weight	Color
STC45ML Steady	2	DC12V	CE	0.19kg	R-Red
STC45ML-BZ Steady w/built-in buzzer		DC24V			G-Green
STC45MLF Steady/Flashing	3	AC110V		0.32kg	A-Amber
STC45MLF-BZ Steady/Flashing w/built-in buzzer		AC220V			G-Green

※ CE Compliant: DC24V

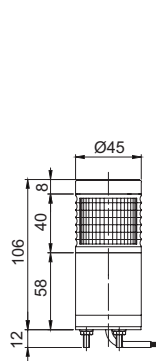
Light source/buzzer current(Each LED module's current)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current	95mA	100mA	30mA	15mA
Buzzer current	40mA	75mA	25mA	15mA

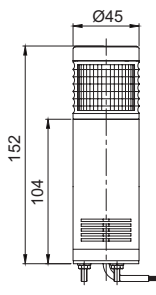
Technical Diagram

Units : mm

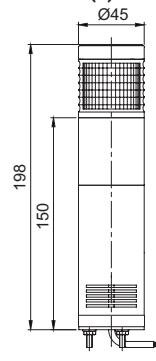
·STC45ML-DC



·STC45ML-AC
·STC45MLF-AC/DC
·STC45ML(F)-BZ-DC



·STC45ML(F)-BZ-AC



Customization

- Available in customized color arrangements
- M12 connector attached type
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall



Wall mount bracket TWS45



Wall mount bracket TWA45

WiringInstructions

- External power line
- UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line
- UL1007 AWG22(0.3sq) 400mm

Ordering Specifications

STC45ML	-	3	-	220	-	RAG
[Model number]		[Colors]		[Voltage]		[Color]
STC45ML		2-2 Colors		12-DC12V		R-Red
STC45ML-BZ		3-3 Colors		24-DC24V		A-Amber
STC45MLF				110-AC110V		G-Green
STC45MLF-BZ				220-AC220V		

Ø45mm Multiple Color LED Steady/Flashing Tower Lights

STC45L



STC45L Series

Built-in buzzer output holes formed on the housing of the product



STC45L Ø45mm Pole Mount, Multiple Color LED Steady/Flashing

Model number	Colors	Voltage	Certificates	Weight	Color
STC45L Steady	2	DC12V	CE	0.33kg	● R-Red ● G-Green
STC45L-BZ		DC24V			
Steady w/built-in buzzer		AC110V			
STC45LF		AC220V			
STC45LF Steady/Flashing	3	DC12V		0.47kg	● R-Red ● A-Amber ● G-Green
STC45LF-BZ		DC24V			
Steady/Flashing		AC110V			
Steady/Flashing w/built-in buzzer		AC220V			

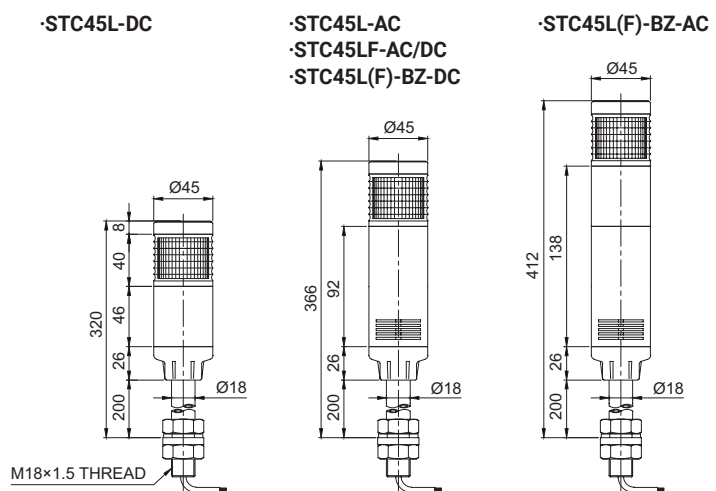
※ CE Compliant: DC24V

Light source/buzzer current(Each LED module's current)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current	95mA	100mA	30mA	15mA
Buzzer current	40mA	75mA	25mA	15mA

Technical Diagram

Units : mm



Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- Available in customized color arrangements
- M12 connector attached type
- Customized pole length available

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Wiring Instructions

- External power line
 - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line
 - UL1007 AWG22(0.3sq) 400mm

Ordering Specifications

STC45L	-	3	-	24	-	RAG	-	LW18
[Model number]		[Colors]		[Voltage]		[Color]		[Bracket]
STC45L		2-2 Colors		12-DC12V		● R-Red		· None-Standard
STC45L-BZ		3-3 Colors		24-DC24V		● A-Amber		· Bracket
STC45LF				110-AC110V		● G-Green		-LB18-LW18
STC45LF-BZ				220-AC220V				-QZ18-SZ18
								-QL18-SL18

Ø56mm Multiple Color LED Steady/Flashing Tower Lights

STC56ML



STC56ML Ø56mm Direct Mount, Multiple Color LED Steady/Flashing

Model number	Colors	Voltage	Certificates	Weight	Color
STC56ML Steady STC56ML-BZ Steady w/built-in buzzer	2	DC12V DC24V AC110V AC220V	CE	0.29kg	R-Red G-Green
STC56MLF Steady/Flashing STC56MLF-BZ Steady/Flashing w/built-in buzzer		DC12V DC24V AC110V AC220V			R-Red A-Amber G-Green

※ CE Compliant: DC24V

Light source/buzzer current(Each LED module's current)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current	240mA	210mA	50mA	25mA
Buzzer current	40mA	75mA	40mA	20mA



STC56ML Series

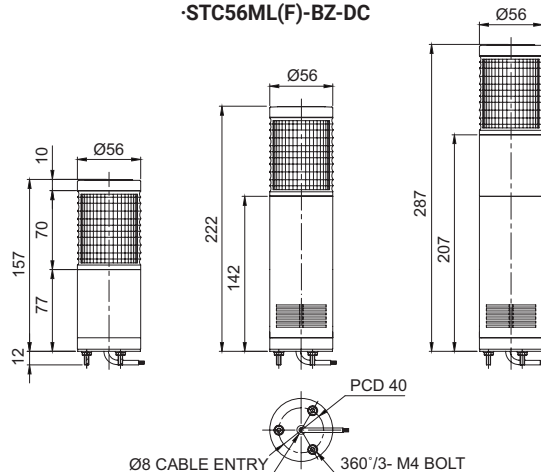
Technical Diagram

Units : mm

·STC56ML-DC
·STC56MLF-DC

·STC56ML-AC
·STC56MLF-AC
·STC56ML(F)-BZ-DC

·STC56ML(F)-BZ-AC



Built-in buzzer output holes formed on the housing of the product



Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm

Customization

- Available in customized color arrangements
- M12 connector attached type
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep)buzzer output available
- Lens height 40mm(Model number: STC56MEL)
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall



Wall mount bracket TWS45



Wall mount bracket TWA45

Ordering Specifications

STC56ML	-	3	-	220	-	RAG
[Model number]		[Colors]		[Voltage]		[Color]
STC56ML		2-2 Colors		12-DC12V		R-Red
STC56ML-BZ		3-3 Colors		24-DC24V		A-Amber
STC56MLF				110-AC110V		G-Green
STC56MLF-BZ				220-AC220V		

40mm lens height
Standard height of lens is 70mm. 40mm lens can optionally be provided.
(Model number: STC56MEL)



Ø56mm Multiple Color LED Steady/Flashing Tower Lights

STC56L



STC56L Series

Built-in buzzer output holes formed on the housing of the product



Wiring Instructions

- External power line
- UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line
- UL1007 AWG22(0.3sq) 400mm

Customization

- 2 buzzer sound types :
Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- Available in customized color arrangements
- M12 connector attached type
- Customized pole length available
- Lens height 40mm
(Model number: STC56EL)

40mm lens height
Standard height of lens is 70mm. 40mm lens can optionally be provided.
(Model number: STC56EL)



STC56L Ø56mm Pole Mount, Multiple Color LED Steady/Flashing

Model number	Colors	Voltage	Certificates	Weight	Color
STC56L Steady	2	DC12V	CE	0.43kg	● R-Red ● G-Green
STC56L-BZ		DC24V			
Steady w/built-in buzzer		AC110V AC220V			
STC56LF	3	DC12V	CE	0.62kg	● R-Red ● A-Amber ● G-Green
Steady/Flashing		DC24V			
STC56LF-BZ		AC110V AC220V			
Steady/Flashing w/ built-in buzzer					

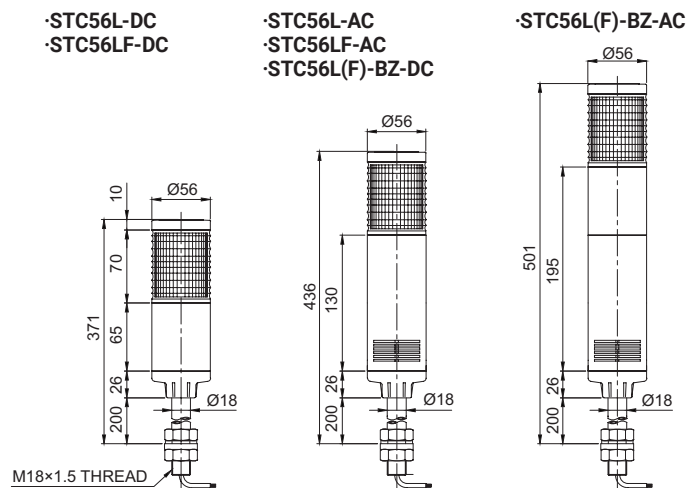
※ CE Compliant: DC24V

Light source/buzzer current(Each LED module's current)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current	240mA	210mA	50mA	25mA
Buzzer current	40mA	75mA	40mA	20mA

Technical Diagram

Units : mm



Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

STC56L	3	220	RAG	LW18
[Model number]	[Colors]	[Voltage]	[Color]	[Bracket]
STC56L	2-2 Colors	12-DC12V	● R-Red	None-Standard
STC56L-BZ	3-3 Colors	24-DC24V	● A-Amber	Bracket
STC56LF		110-AC110V	● G-Green	-LB18 -LW18
STC56LF-BZ		220-AC220V		-QZ18 -SZ18
				-QL18 -SL18

Ø80mm Multiple Color LED Steady/Flashing Tower Lights

STC80ML



STC80ML Ø80mm Direct Mount, Multiple Color LED Steady/Flashing

Model number	Colors	Voltage	Certificates	Weight	Color
STC80ML Steady	2	DC12V	CE	0.40kg	R-Red G-Green
STC80ML-BZ		DC24V			
Steady w/built-in buzzer		AC110V			
STC80MLF		AC220V			
STC80MLF Steady/Flashing	3	DC12V		0.60kg	R-Red A-Amber G-Green
STC80MLF-BZ		DC24V			
Steady/Flashing		AC110V			
w/ built-in buzzer		AC220V			

※ CE Compliant: DC24V

Light source/buzzer current(Each LED module's current)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current	310mA	250mA	60mA	30mA
Buzzer current	40mA	75mA	45mA	25mA



STC80ML Series

Built-in buzzer output holes formed on the housing of the product

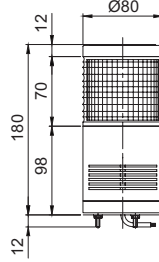
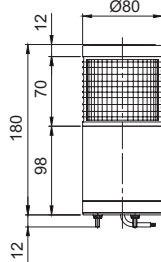


Technical Diagram

Units : mm

·STC80ML-AC/DC
·STC80MLF-AC/DC

·STC80ML-BZ-AC
·STC80MLF-BZ-DC



Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm

Customization

- Available in customized color arrangements
- M12 connector attached type
- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- Lens height 40mm(Model number: STC56MEL)
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall



Ordering Specifications

STC80ML	3	220	RAG
[Model number]	[Colors]	[Voltage]	[Color]
STC80ML	2-2 Colors	12-DC12V	R-Red
STC80ML-BZ	3-3 Colors	24-DC24V	A-Amber
STC80MLF		110-AC110V	G-Green
STC80MLF-BZ		220-AC220V	

40mm lens height
Standard height of lens is 70mm. 40mm lens can optionally be provided.
(Model number: STC80MEL)



Ø80mm Multiple Color LED Steady/Flashing Tower Lights

STC80L



STC80L Series

Built-in buzzer output holes formed on the housing of the product



Wiring Instructions

- External power line
- UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line
- UL1007 AWG22(0.3sq) 400mm

Customization

- 2 buzzer sound types :
Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- Available in customized color arrangements
- M12 connector attached type
- Customized pole length available
- Lens height 40mm
(Model number: STC80EL)

40mm lens height
Standard height of lens is 70mm. 40mm lens can optionally be provided.
(Model number: STC80EL)



STC80L Ø80mm Pole Mount, Multiple Color LED Steady/Flashing

Model number	Colors	Voltage	Certificates	Weight	Color
STC80L Steady	2	DC12V	CE	0.64kg	● R-Red ● G-Green
STC80L-BZ		DC24V			
Steady w/built-in buzzer		AC110V AC220V			
STC80LF	3	DC12V	CE	0.83kg	● R-Red ● A-Amber ● G-Green
Steady/Flashing		DC24V			
STC80LF-BZ		AC110V			
Steady/Flashing w/built-in buzzer		AC220V			

※ CE Compliant: DC24V

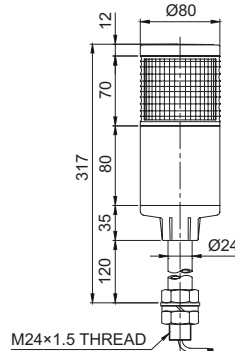
Light source/buzzer current(Each LED module's current)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current	310mA	250mA	60mA	30mA
Buzzer current	40mA	75mA	45mA	25mA

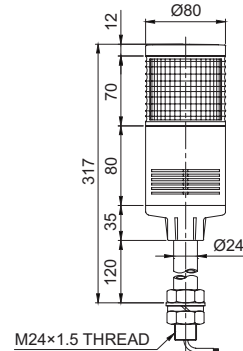
Technical Diagram

Units : mm

·STC80L-AC/DC
·STC80LF-AC/DC



·STC80L-BZ-AC
·STC80LF-BZ-DC



Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

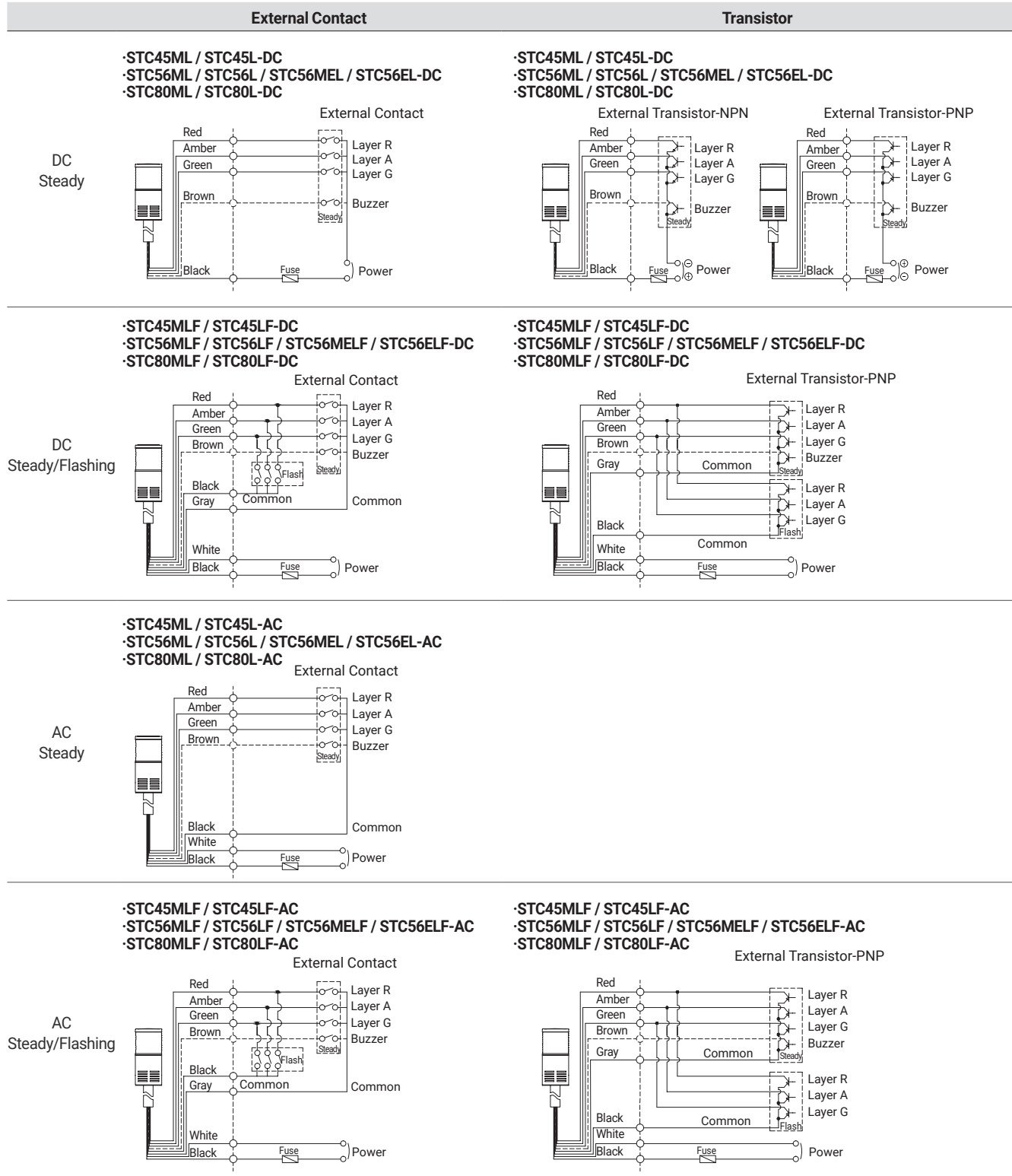
※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

STC80L	3	220	RAG	LW24
[Model number]	[Colors]	[Voltage]	[Color]	[Bracket]
STC80L	2-2 Colors	12-DC12V	● R-Red	· None-Standard
STC80L-BZ	3-3 Colors	24-DC24V	● A-Amber	· Bracket
STC80LF		110-AC110V	● G-Green	-LB24 -LW24
STC80LF-BZ		220-AC220V		-QZ24 -SZ24
				-QL24 -SL24

Wiring Instructions

- STC Series can be wired by using both External Contact and transistor.
- In case of wiring by transistor, please make sure if it is NPN type or PNP type. Please carefully follow wiring instruction below.
- Product can be wired regardless of polarity.



- DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm

QT56MCL

Signal light that can be configured with 7 colors in 1 tower light



QT56MCL Series

Built-in buzzer output holes formed on the housing of the product



PRODUCT SPECIFICATION

QT56MCL

Materials Lens-PC, Housing-Al, bracket-Al
Ambient operating temperature -30°C to + 60°C
Volume Max.90dB at 1m
Protection rating Standard type-IP44, Built-in buzzer type-IP23

- Helps reduce the costs of installation by reducing the space needed to emit seven color signals in a single tower light
- Compact pole-mounted product adopting high-brightness LED as a light source
- Elegant design with hexagon shaped metal housing
- Aluminum housing provides excellent durability
- Soft LED illuminates designated colors when on
- When off, milky translucent color lens provides a comfortable and stable viewing condition for workers in close proximity
- Folding type mount bracket can be utilized in various environments
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment.
- M12 connector type is optionally available(Female M12 connector is not provided)

QT56MCL Multiple Color LED Steady

Model number	Voltage	Certificates	Weight	Color
QT56MCL Steady	DC24V	CE	0.45kg	7 Colors
QT56MCL-BZ Steady w/ built-in buzzer	DC24V		0.48kg	

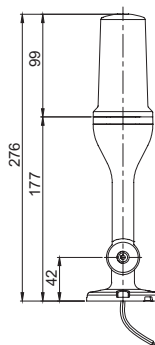
Light source/buzzer current(Each LED module's current)

Voltage	DC24V
Light source current	50mA
Buzzer current	75mA

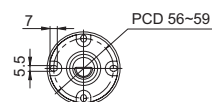
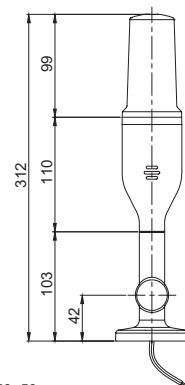
Technical Diagram

Units : mm

·QT56MCL



·QT56MCL-BZ



Customization

- M12 connector attached type

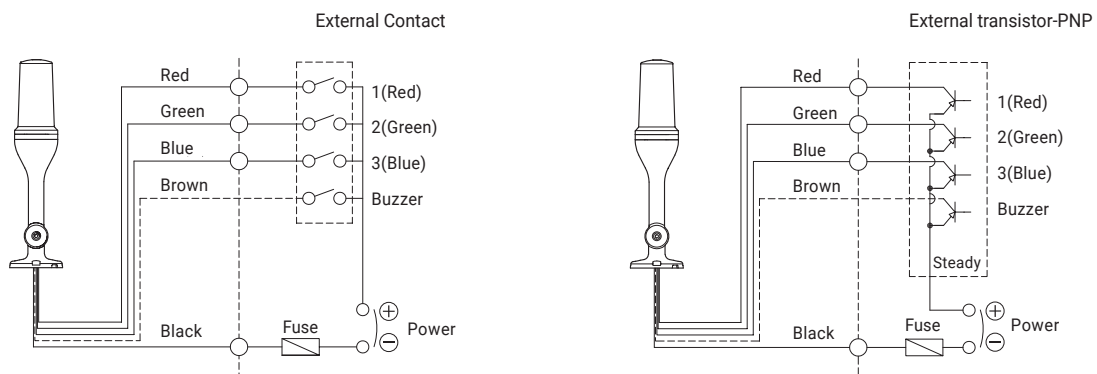
Ordering Specifications

QT56MCL	-	24
[Model number]		[Voltage]
QT56MCL		24-DC24V
QT56MCL-BZ		

Wiring Instructions

- QT56MCL can be wired by using both External Contact and transistor.
- In case of wiring by transistor, please make sure if it is PNP type. Please carefully follow wiring instructions below.
- External power line/External signal line - UL1007 AWG22(0.3sq) 400mm

QT56MCL



< Wiring Configuration for Signal Color >

No.	Signal color	Wiring Configuration for
1	RED	1(RED)
2	GREEN	2(GREEN)
3	BLUE	3(BLUE)
4	AMBER	1(RED)+2(GREEN)
5	CYAN	2(GREEN)+3(BLUE)
6	PURPLE	1(RED)+3(BLUE)
7	WHITE	1(RED)+2(GREEN)+3(BLUE)

※ Please refer to 'M12 Connector-type tower light PIN-MAP' from this catalogue regarding wiring diagram of M12 connector type model.

Signal Color Options

- 7 Color modes available via wiring
- QT56MCL Series can configure seven color signals by combining the 3 signal wires (red, green, blue) attached to the tower light.



ST45L / ST56L / ST80L Series

Universal LED tower light with a wide selection of audio and visual signaling options according to the application environment and intended use



PRODUCT SPECIFICATION

STL Series

Materials Lens-AS, Housing-ABS, Pole-Al

Ambient operating temperature -30°C to + 60°C

Volume

Max.90dB at 1m

Max.85dB at 1m(Speaker output type, Based on WA-Ch1)

Protection rating Standard type-IP44, Built-in buzzer type-IP23

Flashing rate 60-80/min

Compliant with RoHS directive

- LED steady/flashing tower lights
- Long product lifetime of over 20,000hours with the application of a high intensity LED light source
- Can select from size selections of Ø45mm, Ø56mm, and Ø80mm to fit your sophisticated application needs
- A variety of Mounting bracket selections for the pole mount type to fit your location and mounting needs
- Built-in alarm available: Can select from 5 warning sounds, 5 alarms, 5 melodies to fit your application needs
- Customized color arrangement available (LED light distribution system and lens is integrated into a combined structure)
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment

1 Different sizes of LED steady/flashing lenses

- You can select from a variety of indicators depending on the working environment and application needs.

Model number	Lens diameter	Lens height
ST45(M)L	45mm	40mm
ST45(M)LF	45mm	40mm
ST56(M)EL	56mm	40mm
ST56(M)ELF	56mm	40mm
ST56(M)L	56mm	70mm
ST56(M)LF	56mm	70mm
ST80(M)EL	80mm	40mm
ST80(M)ELF	80mm	40mm
ST80(M)L	80mm	70mm
ST80(M)LF	80mm	70mm

2 Buzzer and sound patterns with 15 different tones

- Concrete messages can be clearly conveyed with the option of 15 types of audible signals.

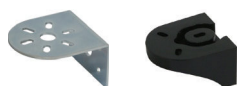
Main	Built-in sound	Channel	Sound
BZ	1 buzzer sound 2 buzzer sound	-	※ Customized 2 tone Buzzer available
WS	5 Warning sounds	Ch1 Ch2 Ch3 Ch4 Ch5	Fire.A-ANG Emergency Ambulance Machinery Fault High Expansion
WM	5 Melodies	Ch1 Ch2 Ch3 Ch4 Ch5	Sweet Home For Elise Cuckoo's Waltz Piano Sonata Turkish March
WA	5 Alarms	Ch1 Ch2 Ch3 Ch4 Ch5	Beep Intermittent Door Chime Phone Ring PI.PI.PI Short Tripping Beat

3 A variety of Mounting bracket selection

- Wall mount type model allows for contained and tidy wiring with no exposed wires
- A number of pole mounting stands are available for a variety of environments depending on location and mounting needs
- Specifically, the QL-type and SL-type tower lights can be applied in a variety of environments as it can be folded up to 90 degrees in the horizontal direction. These products can avoid damage due to external forces when movement of the equipment is required

·Wall mount bracket

TWS45 TWS80 TWA45 TWA80



Steel

PC

·Pole Mount Brackets

Standard LB18 LB24 LW18 LW24 QZ18 QZ24 SZ18 SZ24 QL18 QL24 SL18 SL24



Steel

Steel

ABS

ABS

Al

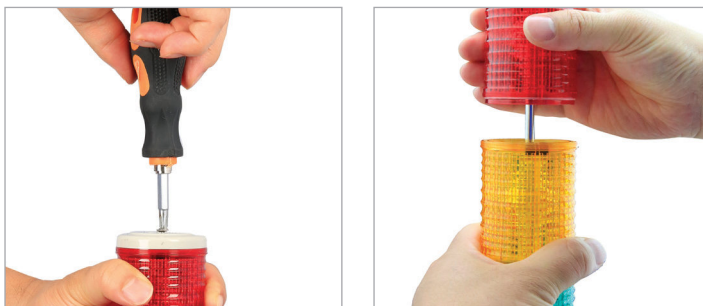
ABS

Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

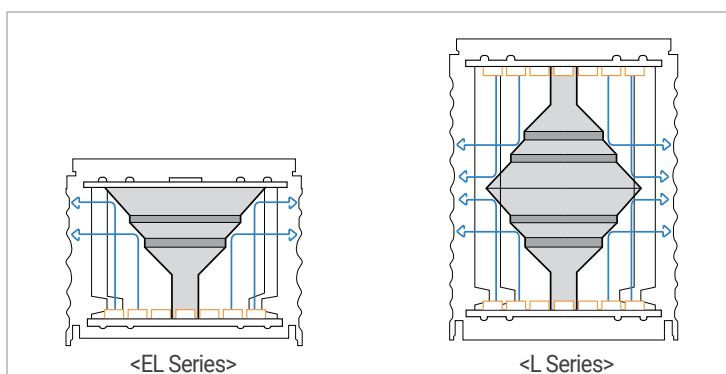
Interchangeable Lens Concept

STL Series product allows for the lens arrangement to be adjusted after removing the bolt that secures the cover. If additional lenses are required for this product please reach out to us. ST45L / ST56L / ST80L series can be stacked up to 5 layers.



Reflection System

- Qlight's special light distribution system with multi-tiered reflector provides linear and balanced light transmission to the lens for strong LED illumination throughout the product
- The special light diffusion structure inside the product creates the brightest signal light at the center of the lens



References

Mount bracket	Sound	Buzzer and sound patterns	Lens dimension				
			Ø45mm H40mm	Ø56mm H40mm	Ø56mm H70mm	Ø80mm H40mm	Ø80mm H70mm
 Direct mount	No sound	Standard	ST45ML(F)	ST56MEL(F)	ST56ML(F)	ST80MEL(F)	ST80ML(F)
		Built-in buzzer	ST45ML(F)-BZ	ST56MEL(F)-BZ	ST56ML(F)-BZ	ST80MEL(F)-BZ	ST80ML(F)-BZ
		5 Warning sounds	ST45ML(F)-WS	ST56MEL(F)-WS	ST56ML(F)-WS	ST80MEL(F)-WS	ST80ML(F)-WS
		5 Melodies	ST45ML(F)-WM	ST56MEL(F)-WM	ST56ML(F)-WM	ST80MEL(F)-WM	ST80ML(F)-WM
		5 Alarms	ST45ML(F)-WA	ST56MEL(F)-WA	ST56ML(F)-WA	ST80MEL(F)-WA	ST80ML(F)-WA
 Pole mount	No sound	Standard	ST45L(F)	ST56EL(F)	ST56L(F)	ST80EL(F)	ST80L(F)
		Built-in buzzer	ST45L(F)-BZ	ST56EL(F)-BZ	ST56L(F)-BZ	ST80EL(F)-BZ	ST80L(F)-BZ
		5 Warning sounds	ST45L(F)-WS	ST56EL(F)-WS	ST56L(F)-WS	ST80EL(F)-WS	ST80L(F)-WS
		5 Melodies	ST45L(F)-WM	ST56EL(F)-WM	ST56L(F)-WM	ST80EL(F)-WM	ST80L(F)-WM
		5 Alarms	ST45L(F)-WA	ST56EL(F)-WA	ST56L(F)-WA	ST80EL(F)-WA	ST80L(F)-WA

ST45ML / ST45L



ST45ML Series

Built-in buzzer output holes formed on the housing of the product



ST45ML Ø45mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
ST45ML Steady	1	AC/DC12V	CE UL	0.19kg	● R-Red
ST45ML-BZ Steady w/built-in buzzer		AC/DC24V		0.19kg	
ST45ML-WS Steady/5 Warning sounds		AC110V		0.25kg	
ST45ML-WM Steady/5 Melodies		AC220V		0.25kg	
ST45MLF Steady/Flashing	2	AC/DC12V	CE UL	0.21kg	● R-Red ● G-Green
ST45MLF-BZ Steady/Flashing w/built-in buzzer		AC/DC24V		0.21kg	
ST45MLF-WS Steady/Flashing/5 Warning sounds		AC110V		0.29kg	
ST45MLF-WM Steady/Flashing/5 Melodies		AC220V		0.29kg	
ST45MLF Steady/Flashing	3	AC/DC12V	CE UL	0.25kg	● R-Red ● A-Amber ● G-Green
ST45MLF-BZ Steady/Flashing w/built-in buzzer		AC/DC24V		0.25kg	
ST45MLF-WS Steady/Flashing/5 Warning sounds		AC110V		0.34kg	
ST45MLF-WM Steady/Flashing/5 Melodies		AC220V		0.34kg	
ST45MLF Steady/Flashing	4	AC/DC12V	CE UL	0.30kg	● R-Red ● A-Amber ● G-Green ● B-Blue
ST45MLF-BZ Steady/Flashing w/built-in buzzer		AC/DC24V		0.30kg	
ST45MLF-WS Steady/Flashing/5 Warning sounds		AC110V		0.38kg	
ST45MLF-WM Steady/Flashing/5 Melodies		AC220V		0.38kg	
ST45MLF Steady/Flashing	5	AC/DC12V	CE UL	0.34kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
ST45MLF-BZ Steady/Flashing w/built-in buzzer		AC/DC24V		0.34kg	
ST45MLF-WS Steady/Flashing/5 Warning sounds		AC110V		0.42kg	
ST45MLF-WM Steady/Flashing/5 Melodies		AC220V		0.42kg	

※ CE Compliant: DC12V, DC24V, UL Listed: DC24V(Except sound types)

Light source/buzzer current(based on 1 layer)

Voltage	AC/DC12V	AC/DC24V	AC110V	AC220V
Light source current(1 layer)	40mA	55mA	45mA	30mA
Buzzer current	40mA	75mA	50mA	35mA
Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA

Customization

- AC type each layer power provided(same wiring DC steady)
- DC24V voltage UL listed product
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep)buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall



Ordering Specifications

ST45ML	-	3	-	24	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
ST45ML		1-1 Layer		12-DC12V		● R-Red
ST45ML-BZ		2-2 Layers		24-DC24V		● A-Amber
ST45ML-WS		3-3 Layers		110-AC110V		● G-Green
ST45ML-WM		4-4 Layers		220-AC220V		● B-Blue
ST45ML-WA		5-5 Layers				○ W-White
ST45MLF						
ST45MLF-BZ						
ST45MLF-WS						
ST45MLF-WM						
ST45MLF-WA						



ST45L Ø45mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
ST45L	1	AC/DC12V	CE UL	0.35kg	● R-Red
Steady		AC/DC24V		0.35kg	
ST45L-BZ		AC110V		0.45kg	
Steady w/built-in buzzer		AC220V		0.45kg	
ST45L-WS	2	AC/DC12V		0.39kg	● R-Red ● G-Green
Steady/5 Warning sounds		AC/DC24V		0.39kg	
ST45L-WM		AC110V		0.49kg	
Steady/5 Melodies		AC220V		0.49kg	
ST45L-WA	3	AC/DC12V		0.44kg	● R-Red ● A-Amber ● G-Green
Steady/5 Alarms		AC/DC24V		0.44kg	
ST45LF		AC110V		0.54kg	
Steady/Flashing		AC220V		0.54kg	
ST45LF-BZ	4	AC/DC12V		0.48kg	● R-Red ● A-Amber ● G-Green ● B-Blue
Steady/Flashing w/built-in buzzer		AC/DC24V		0.48kg	
ST45LF-WS		AC110V		0.58kg	
Steady/Flashing/5 Warning sounds		AC220V		0.58kg	
ST45LF-WM	5	AC/DC12V		0.52kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
Steady/Flashing/5 Melodies		AC/DC24V		0.52kg	
ST45LF-WA		AC110V		0.62kg	
Steady/Flashing/5 Alarms		AC220V		0.62kg	

※ CE Compliant: DC12V, DC24V, UL Listed: DC24V(Except sound types)



ST45L Series

Light source/buzzer current(based on 1 layer)

Voltage	AC/DC12V	AC/DC24V	AC110V	AC220V
Light source current(1 layer)	40mA	55mA	45mA	30mA
Buzzer current	40mA	75mA	50mA	35mA
Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA

Built-in buzzer output holes formed on the housing of the product



Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

ST45L	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
ST45L		1-1 Layer		12-DC12V		● R-Red		· None-Standard
ST45L-BZ		2-2 Layers		24-DC24V		● A-Amber		· Bracket
ST45L-WS		3-3 Layers		110-AC110V		● G-Green		-LB18 -LW18
ST45L-WM		4-4 Layers		220-AC220V		● B-Blue		-QZ18 -SZ18
ST45L-WA		5-5 Layers				○ W-White		-QL18 -SL18
ST45LF								
ST45LF-BZ								
ST45LF-WS								
ST45LF-WM								
ST45LF-WA								

Customization

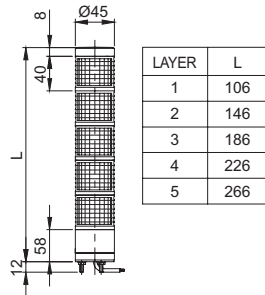
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep)buzzer output available
- AC type each layer power provided(same wiring DC steady)
- DC24V voltage UL listed product
- Customized pole length available

ST45ML / ST45L

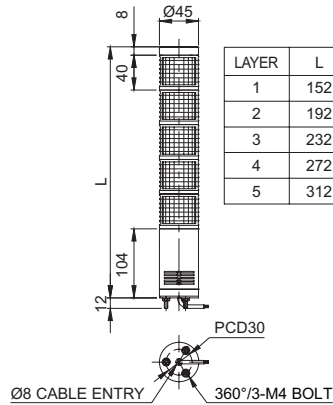
Technical Diagram

Units : mm

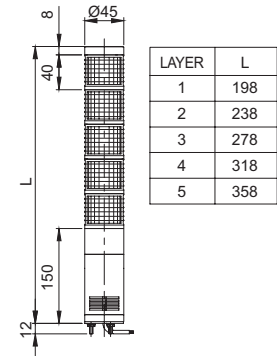
·ST45ML-AC/DC
·ST45ML-BZ-DC
·ST45MLF-DC



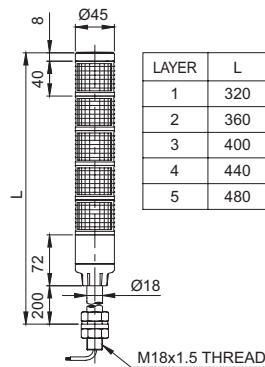
·ST45ML-BZ-AC
·ST45MLF-AC
·ST45MLF-BZ-DC



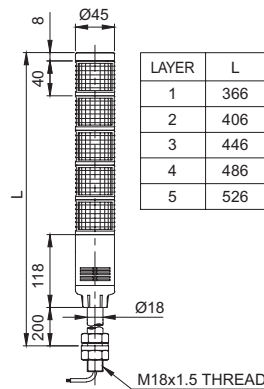
·ST45MLF-BZ-AC



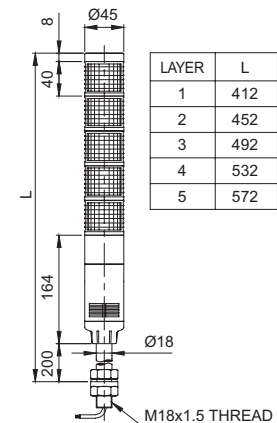
·ST45L-AC/DC
·ST45L-BZ-DC
·ST45LF-DC



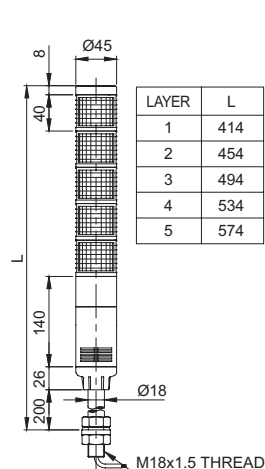
·ST45L-BZ-AC
·ST45LF-AC
·ST45LF-BZ-DC



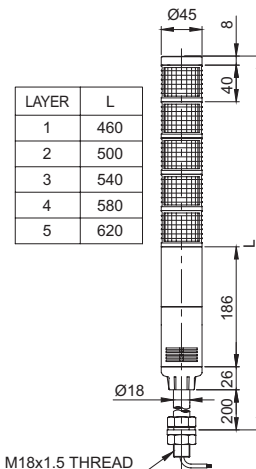
·ST45LF-BZ-AC



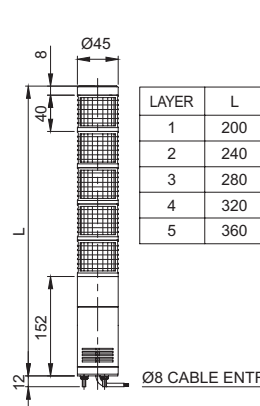
·ST45L-W□-DC
·ST45LF-W□-DC



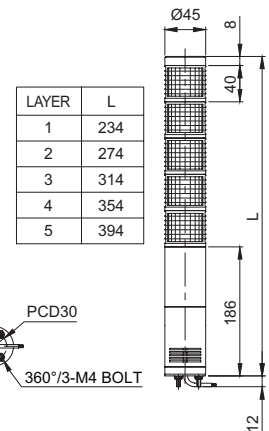
·ST45L-W□-AC
·ST45LF-W□-AC



·ST45ML-W□-DC
·ST45MLF-W□-DC



·ST45ML-W□-AC
·ST45MLF-W□-AC



Wiring Instructions

- DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Ø56mm LED Steady/Flashing Tower Lights

ST56MEL



ST56MEL Ø56mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
ST56MEL Steady	1	AC/DC12V		0.26kg	● R-Red
ST56MEL-BZ Steady w/built-in buzzer		AC/DC24V		0.26kg	
ST56MEL-WS Steady/5 Warning sounds		AC110V		0.42kg	
ST56MEL-WM Steady/5 Melodies		AC220V		0.42kg	
ST56MEL-WA Steady/5 Alarms	2	AC/DC12V		0.32kg	● R-Red ● G-Green
ST56MELF Steady/Flashing		AC/DC24V		0.32kg	
ST56MELF-BZ Steady/Flashing w/ built-in buzzer		AC110V		0.48kg	
ST56MELF-WS Steady/Flashing/ 5 Warning sounds		AC220V		0.48kg	
ST56MELF-WM Steady/Flashing/5 Melodies	3	AC/DC12V	CE UL	0.37kg	● R-Red ● A-Amber ● G-Green
ST56MELF-BZ Steady/Flashing w/ built-in buzzer		AC/DC24V		0.37kg	
ST56MELF-WS Steady/Flashing/ 5 Warning sounds		AC110V		0.54kg	
ST56MELF-WM Steady/Flashing/5 Melodies		AC220V		0.54kg	
ST56MELF-WA Steady/Flashing/5 Alarms	4	AC/DC12V		0.43kg	● R-Red ● A-Amber ● G-Green ● B-Blue
ST56MELF-BZ Steady/Flashing w/ built-in buzzer		AC/DC24V		0.43kg	
ST56MELF-WS Steady/Flashing/ 5 Warning sounds		AC110V		0.59kg	
ST56MELF-WM Steady/Flashing/5 Melodies		AC220V		0.59kg	
ST56MELF-WA Steady/Flashing/5 Alarms	5	AC/DC12V		0.49kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
ST56MELF-BZ Steady/Flashing w/ built-in buzzer		AC/DC24V		0.49kg	
ST56MELF-WS Steady/Flashing/ 5 Warning sounds		AC110V		0.65kg	
ST56MELF-WM Steady/Flashing/5 Melodies		AC220V		0.65kg	

※ CE Compliant: DC12V, DC24V, UL Listed: DC24V(Except sound types)



ST56MEL Series

Built-in buzzer output
holes formed on the
housing of the product



Light source/buzzer current(based on 1 layer)

Voltage	AC/DC12V	AC/DC24V	AC110V	AC220V
Light source current(1 layer)	60mA	60mA	50mA	40mA
Buzzer current	40mA	75mA	50mA	40mA
Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA

Customization

- AC type each layer power provided(same wiring DC steady)
- DC24V voltage UL listed product
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep)buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall



Ordering Specifications

ST56MEL	-	3	-	24	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
ST56MEL		1-1 Layer		12-DC12V		● R-Red
ST56MEL-BZ		2-2 Layers		24-DC24V		● A-Amber
ST56MEL-WS		3-3 Layers		110-AC110V		● G-Green
ST56MEL-WM		4-4 Layers		220-AC220V		● B-Blue
ST56MEL-WA		5-5 Layers				○ W-White
ST56MELF						
ST56MELF-BZ						
ST56MELF-WS						
ST56MELF-WM						
ST56MELF-WA						

Ø56mm LED Steady/Flashing Tower Lights

ST56EL



ST56EL Series

Built-in buzzer output holes formed on the housing of the product



ST56EL Ø56mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
ST56EL Steady	1	AC/DC12V		0.41kg	● R-Red
ST56EL-BZ Steady w/built-in buzzer		AC/DC24V		0.41kg	
		AC110V AC220V		0.57kg 0.57kg	
ST56EL-WS Steady/5 Warning sounds	2	AC/DC12V		0.47kg	● R-Red ● G-Green
ST56EL-WM Steady/5 Melodies		AC/DC24V		0.47kg	
ST56EL-WA Steady/5 Alarms		AC110V AC220V		0.62kg 0.62kg	
ST56ELF Steady/Flashing	3	AC/DC12V	CE UL	0.52kg	● R-Red ● A-Amber ● G-Green
ST56ELF-BZ Steady/Flashing w/ built-in buzzer		AC/DC24V		0.52kg	
		AC110V AC220V		0.68kg 0.68kg	
ST56ELF-WS Steady/Flashing/5 Warning sounds	4	AC/DC12V		0.58kg	● R-Red ● A-Amber ● G-Green ● B-Blue
ST56ELF-WM		AC/DC24V		0.58kg	
ST56ELF-WA Steady/Flashing/5 Alarms		AC110V AC220V		0.74kg 0.74kg	
ST56ELF-WS Steady/Flashing/5 Melodies	5	AC/DC12V		0.63kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
ST56ELF-WM		AC/DC24V		0.63kg	
ST56ELF-WA		AC110V AC220V		0.75kg 0.75kg	

※ CE Compliant: DC12V, DC24V, UL Listed: DC24V(Except sound types)

Light source/buzzer current(based on 1 layer)

Voltage	AC/DC12V	AC/DC24V	AC110V	AC220V
Light source current(1 layer)	60mA	60mA	50mA	40mA
Buzzer current	40mA	75mA	50mA	40mA
Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Customization

- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep)buzzer output available
- AC type each layer power provided(same wiring DC steady)
- DC24V voltage UL listed product
- Customized pole length available

Ordering Specifications

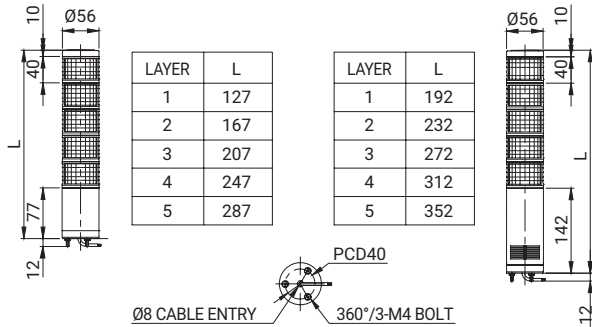
ST56EL	-	3	-	220	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
ST56EL		1-1 Layer		12-DC12V		● R-Red		· None-Standard
ST56EL-BZ		2-2 Layers		24-DC24V		● A-Amber		· Bracket
ST56EL-WS		3-3 Layers		110-AC110V		● G-Green		-LB18 -LW18
ST56EL-WM		4-4 Layers		220-AC220V		● B-Blue		-QZ18 -SZ18
ST56EL-WA		5-5 Layers				○ W-White		-QL18 -SL18
ST56ELF								
ST56ELF-BZ								
ST56ELF-WS								
ST56ELF-WM								
ST56ELF-WA								

ST56MEL / ST56EL

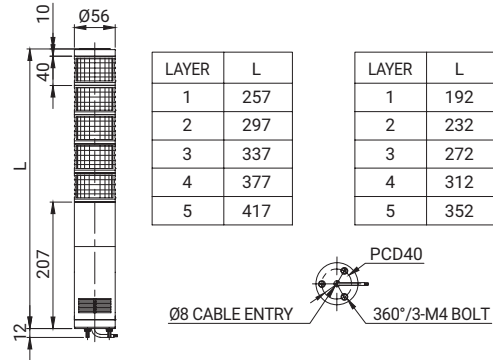
Technical Diagram

Units : mm

·ST56MEL-AC/DC
·ST56MEL-BZ-DC
·ST56MELF-DC

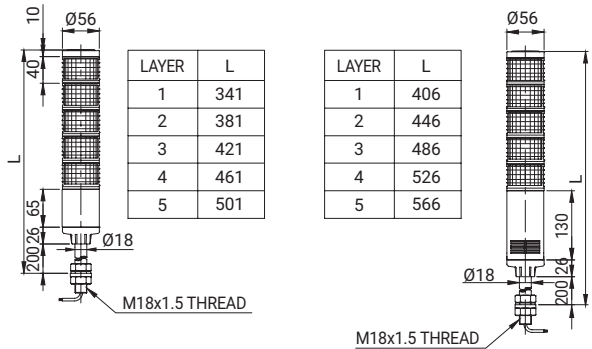


·ST56MEL-W□-AC
·ST56MELF-W□-AC

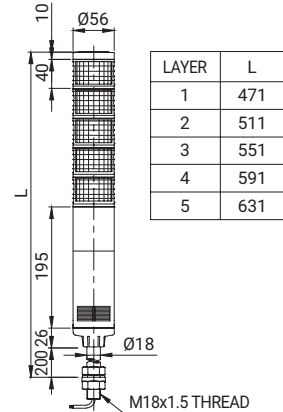


·ST56MEL-W□-DC
·ST56MELF-W□-DC

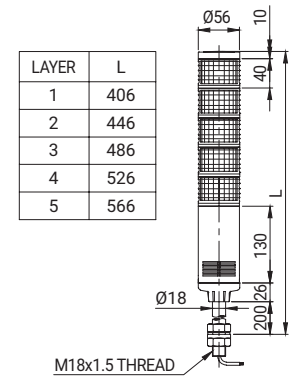
·ST56EL-AC/DC
·ST56EL-BZ-DC
·ST56ELF-DC



·ST56EL-W□-AC
·ST56ELF-W□-AC



·ST56EL-W□-DC
·ST56ELF-W□-DC



Wiring Instructions

- DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

ST56ML / ST56L



ST56ML Series

Built-in buzzer output holes formed on the housing of the product



ST56ML Ø56mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
ST56ML Steady	1	AC/DC12V		0.22kg	● R-Red
ST56ML-BZ		AC/DC24V		0.22kg	
Steady w/built-in buzzer		AC110V AC220V		0.45kg 0.45kg	
ST56ML-WS	2	AC/DC12V		0.30kg	● R-Red ● G-Green
Steady/5 Warning sounds		AC/DC24V		0.30kg	
ST56ML-WM		AC110V AC220V		0.53kg 0.53kg	
ST56ML-WA	3	AC/DC12V	CE UL	0.38kg	● R-Red ● A-Amber ● G-Green
Steady/5 Alarms		AC/DC24V		0.38kg	
ST56MLF		AC110V AC220V		0.61kg 0.61kg	
Steady/Flashing w/ built-in buzzer	4	AC/DC12V		0.46kg	● R-Red ● A-Amber ● G-Green ● B-Blue
ST56MLF-WS		AC/DC24V		0.46kg	
Steady/Flashing/5 Warning sounds		AC110V AC220V		0.70kg 0.70kg	
ST56MLF-WM	5	AC/DC12V		0.54kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
Steady/Flashing/5 Melodies		AC/DC24V		0.54kg	
ST56MLF-WA		AC110V AC220V		0.78kg 0.78kg	
Steady/Flashing/5 Alarms					

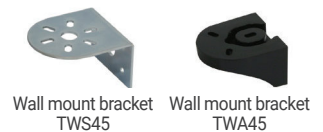
※ CE Compliant: DC12V, DC24V, UL Listed: DC24V(Except sound types)

Light source/buzzer current(based on 1 layer)

Voltage	AC/DC12V	AC/DC24V	AC110V	AC220V
Light source current(1 layer)	120mA	95mA	70mA	55mA
Buzzer current	40mA	75mA	50mA	40mA
Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA

Customization

- AC type each layer power provided(same wiring DC steady)
- DC24V voltage UL listed product
- 2 buzzer sound types : Both prolonged(beep, beep) and staccato (beep, beep, beep) buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall



Ordering Specifications

ST56ML	-	3	-	110	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
ST56ML		1-1 Layer		12-DC12V		● R-Red
ST56ML-BZ		2-2 Layers		24-DC24V		● A-Amber
ST56ML-WS		3-3 Layers		110-AC110V		● G-Green
ST56ML-WM		4-4 Layers		220-AC220V		● B-Blue
ST56ML-WA		5-5 Layers				○ W-White
ST56MLF						
ST56MLF-BZ						
ST56MLF-WS						
ST56MLF-WM						
ST56MLF-WA						



ST56L Ø56mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
ST56L Steady	1	AC/DC12V		0.44kg	● R-Red
ST56L-BZ Steady w/built-in buzzer		AC/DC24V		0.44kg	
ST56L-WS Steady/5 Warning sounds		AC110V		0.60kg	
ST56L-WM Steady/5 Melodies		AC220V		0.60kg	
ST56L-WA Steady/5 Alarms	2	AC/DC12V		0.52kg	● R-Red ● G-Green
ST56LF Steady/Flashing		AC/DC24V		0.52kg	
ST56LF-BZ Steady/Flashing w/ built-in buzzer		AC110V		0.68kg	
ST56LF-WS Steady/Flashing/5 Warning sounds		AC220V		0.68kg	
ST56LF-WM Steady/Flashing/5 Melodies	3	AC/DC12V	CE UL	0.60kg	● R-Red ● A-Amber ● G-Green
ST56LF-WA Steady/Flashing/5 Alarms		AC/DC24V		0.60kg	
ST56LF-BZ Steady/Flashing w/ built-in buzzer		AC110V		0.76kg	
ST56LF-WS Steady/Flashing/5 Warning sounds		AC220V		0.76kg	
ST56LF-WM Steady/Flashing/5 Melodies	4	AC/DC12V		0.68kg	● R-Red ● A-Amber ● G-Green ● B-Blue
ST56LF-WA Steady/Flashing/5 Alarms		AC/DC24V		0.68kg	
ST56LF-BZ Steady/Flashing w/ built-in buzzer		AC110V		0.84kg	
ST56LF-WS Steady/Flashing/5 Warning sounds		AC220V		0.84kg	
ST56LF-WM Steady/Flashing/5 Melodies	5	AC/DC12V		0.77kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
ST56LF-WA Steady/Flashing/5 Alarms		AC/DC24V		0.77kg	
ST56LF-BZ Steady/Flashing w/ built-in buzzer		AC110V		0.93kg	
ST56LF-WS Steady/Flashing/5 Warning sounds		AC220V		0.93kg	

※ CE Compliant: DC12V, DC24V, UL Listed: DC24V(Except sound types)

Light source/buzzer current(based on 1 layer)

Voltage	AC/DC12V	AC/DC24V	AC110V	AC220V
Light source current(1 layer)	120mA	95mA	70mA	55mA
Buzzer current	40mA	75mA	50mA	40mA
Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

ST56L	-	3	-	220	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
ST56L		1-1 Layer		12-DC12V		● R-Red		· None-Standard
ST56L-BZ		2-2 Layers		24-DC24V		● A-Amber		· Bracket
ST56L-WS		3-3 Layers		110-AC110V		● G-Green		· LB18 -LW18
ST56L-WM		4-4 Layers		220-AC220V		● B-Blue		· QZ18 -SZ18
ST56L-WA		5-5 Layers				○ W-White		· QL18 -SL18
ST56LF								
ST56LF-BZ								
ST56LF-WS								
ST56LF-WM								
ST56LF-WA								



ST56L Series

Built-in buzzer output
holes formed on the
housing of the product



Customization

- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- AC type each layer power provided (same wiring DC steady)
- DC24V voltage UL listed product
- Customized pole length available

ST56ML / ST56L

Technical Diagram

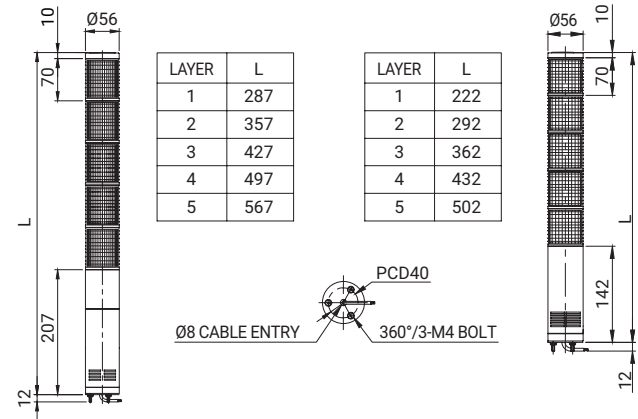
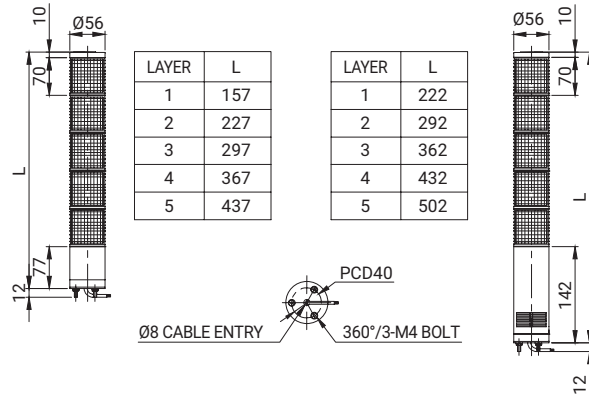
Units : mm

·ST56ML-AC/DC
·ST56ML-BZ-DC
·ST56MLF-DC

·ST56ML-BZ-AC
·ST56MLF-BZ-AC/DC
·ST56MLF-AC

·ST56ML-W□-AC
·ST56MLF-W□-AC

·ST56ML-W□-DC
·ST56MLF-W□-DC

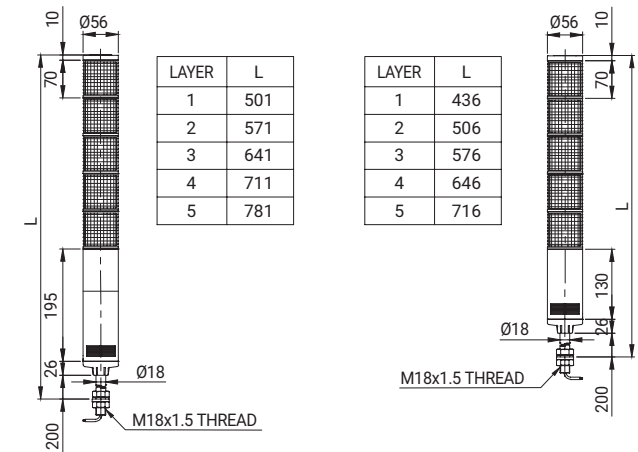
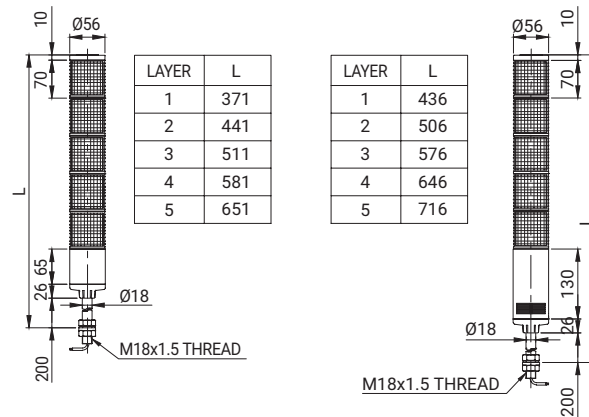


·ST56L-AC/DC
·ST56L-BZ-DC
·ST56LF-DC

·ST56L-BZ-AC
·ST56LF-BZ-AC/DC
·ST56LF-AC

·ST56L-W□-AC
·ST56LF-W□-AC

·ST56L-W□-DC
·ST56LF-W□-DC



Wiring Instructions

- DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Ø80mm LED Steady/Flashing Tower Lights

ST80MEL



ST80MEL Ø80mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
ST80MEL Steady	1	AC/DC12V	CE UL	0.36kg	R-Red
ST80MEL-BZ Steady w/built-in buzzer		AC/DC24V		0.36kg	
ST80MEL-WA Steady/5 Alarms		AC110V		0.59kg	
ST80MELF Steady/Flashing	2	AC/DC12V		0.59kg	R-Red
ST80MELF-BZ Steady/Flashing w/built-in buzzer		AC/DC24V		0.59kg	
ST80MELF-WA Steady/Flashing/5 Alarms		AC110V		0.59kg	
ST80MELF-WM Steady/Flashing/5 Melodies	3	AC/DC12V		0.45kg	R-Red
ST80MELF-WM Steady/Flashing/5 Melodies		AC/DC24V		0.45kg	
ST80MELF-WM Steady/Flashing/5 Melodies		AC110V		0.68kg	
ST80MELF-WA Steady/Flashing/5 Alarms	4	AC/DC12V		0.68kg	R-Red
ST80MELF-WA Steady/Flashing/5 Alarms		AC/DC24V		0.68kg	
ST80MELF-WA Steady/Flashing/5 Alarms		AC110V		0.68kg	
ST80MELF-WM Steady/Flashing/5 Melodies	5	AC/DC12V		0.68kg	R-Red
ST80MELF-WM Steady/Flashing/5 Melodies		AC/DC24V		0.68kg	
ST80MELF-WM Steady/Flashing/5 Melodies		AC110V		0.68kg	



ST80MEL Series

※ CE Compliant: DC12V, DC24V(Except sound types)
 ※ UL Listed: DC24V(Except sound types)

Built-in buzzer output holes formed on the housing of the product



Light source/buzzer current(based on 1 layer)

Voltage	AC/DC12V	AC/DC24V	AC110V	AC220V
Light source current(1 layer)	80mA	60mA	50mA	40mA
Buzzer current	40mA	75mA	50mA	40mA
Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA

Customization

- AC type each layer power provided(same wiring DC steady)
- DC24V voltage UL listed product
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep)buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall



Wall mount bracket TWS80



Wall mount bracket TWA80

Ordering Specifications

ST80MEL	-	3	-	24	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
ST80MEL		1-1 Layer		12-DC12V		R-Red
ST80MEL-BZ		2-2 Layers		24-DC24V		A-Amber
ST80MEL-WA		3-3 Layers		110-AC110V		G-Green
ST80MEL-WM		4-4 Layers		220-AC220V		B-Blue
ST80MELF		5-5 Layers				W-White
ST80MELF-BZ						
ST80MELF-WA						
ST80MELF-WM						

Ø80mm LED Steady/Flashing Tower Lights

ST80EL



ST80EL Series

Built-in buzzer output holes formed on the housing of the product



ST80EL Ø80mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
ST80EL Steady	1	AC/DC12V		0.58kg	● R-Red
ST80EL-BZ Steady w/built-in buzzer		AC/DC24V		0.58kg	
		AC110V		0.81kg	
		AC220V		0.81kg	
ST80EL-WS Steady/5 Warning sounds	2	AC/DC12V		0.67kg	● R-Red ● G-Green
ST80EL-WM Steady/5 Melodies		AC/DC24V		0.67kg	
ST80EL-WA Steady/5 Alarms		AC110V		0.91kg	
ST80ELF Steady/Flashing		AC220V		0.91kg	
ST80ELF-BZ Steady/Flashing w/ built-in buzzer	3	AC/DC12V	CE UL	0.77kg	● R-Red ● A-Amber ● G-Green
ST80ELF-WS Steady/Flashing/5 Warning sounds		AC/DC24V		0.77kg	
ST80ELF-WM Steady/Flashing/5 Melodies		AC110V		1.00kg	
ST80ELF-WA Steady/Flashing/5 Alarms		AC220V		1.00kg	
ST80ELF-BZ Steady/Flashing w/ built-in buzzer	4	AC/DC12V		0.86kg	● R-Red ● A-Amber ● G-Green ● B-Blue
ST80ELF-WS Steady/Flashing/5 Warning sounds		AC/DC24V		0.86kg	
ST80ELF-WM Steady/Flashing/5 Melodies		AC110V		1.09kg	
ST80ELF-WA Steady/Flashing/5 Alarms		AC220V		1.09kg	
ST80ELF-BZ Steady/Flashing w/ built-in buzzer	5	AC/DC12V		0.95kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
ST80ELF-WS Steady/Flashing/5 Warning sounds		AC/DC24V		0.95kg	
ST80ELF-WM Steady/Flashing/5 Melodies		AC110V		1.19kg	
ST80ELF-WA Steady/Flashing/5 Alarms		AC220V		1.19kg	

※ CE Compliant: DC12V, DC24V(Except sound types)

※ UL Listed: DC24V(Except sound types)

Light source/buzzer current(based on 1 layer)

Voltage	AC/DC12V	AC/DC24V	AC110V	AC220V
Light source current(1 layer)	80mA	60mA	50mA	40mA
Buzzer current	40mA	75mA	50mA	40mA
Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA

Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Customization

- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- AC type each layer power provided (same wiring DC steady)
- DC24V voltage UL listed product
- Customized pole length available

Ordering Specifications

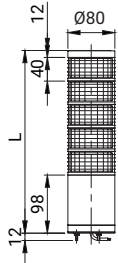
ST80EL	-	3	-	220	-	RAG	-	LW24
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
ST80EL		1-1 Layer		12-DC12V		● R-Red		· None-Standard
ST80EL-BZ		2-2 Layers		24-DC24V		● A-Amber		· Bracket
ST80EL-WS		3-3 Layers		110-AC110V		● G-Green		· LB24 -LW24
ST80EL-WM		4-4 Layers		220-AC220V		● B-Blue		· QZ24 -SZ24
ST80EL-WA		5-5 Layers				○ W-White		· QL24 -SL24
ST80ELF								
ST80ELF-BZ								
ST80ELF-WS								
ST80ELF-WM								
ST80ELF-WA								

ST80MEL / ST80EL

Technical Diagram

Units : mm

·ST80MEL-AC/DC
·ST80MELF-AC/DC

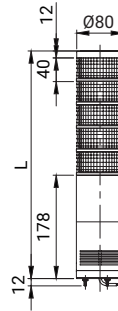


LAYER	L
1	150
2	190
3	230
4	270
5	310



·ST80MEL-BZ-AC/DC
·ST80MELF-BZ-AC/DC

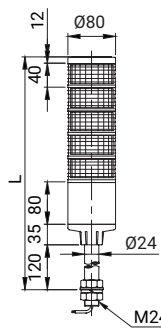
·ST80MEL-W□
·ST80MELF-W□



LAYER	L
1	230
2	270
3	310
4	350
5	390



·ST80EL-AC/DC
·ST80ELF-AC/DC

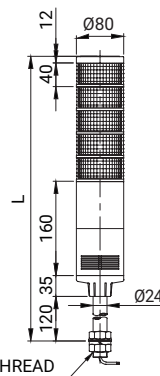


LAYER	L
1	287
2	327
3	367
4	407
5	447



·ST80EL-BZ-AC/DC
·ST80ELF-BZ-AC/DC

·ST80EL-W□
·ST80ELF-W□



LAYER	L
1	367
2	407
3	447
4	487
5	527

M24x1.5 THREAD

Wiring Instructions

- DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

ST80ML / ST80L



ST80ML Series

Built-in buzzer output holes formed on the housing of the product



ST80ML Ø80mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
ST80ML Steady	1	AC/DC12V	CE UL	0.40kg	● R-Red
ST80ML-BZ Steady w/built-in buzzer		AC/DC24V		0.40kg	
		AC110V		0.64kg	
		AC220V		0.64kg	
ST80ML-WS Steady/5 Warning sounds	2	AC/DC12V		0.54kg	● R-Red ● G-Green
ST80ML-WM Steady/5 Melodies		AC/DC24V		0.54kg	
		AC110V		0.78kg	
ST80ML-WA Steady/5 Alarms	3	AC/DC12V		0.68kg	● R-Red ● A-Amber ● G-Green
ST80MLF Steady/Flashing		AC/DC24V		0.68kg	
		AC110V		0.92kg	
		AC220V		0.92kg	
ST80MLF-BZ Steady/Flashing w/ built-in buzzer	4	AC/DC12V		0.83kg	● R-Red ● A-Amber ● G-Green ● B-Blue
ST80MLF-WS Steady/Flashing/5 Warning sounds		AC/DC24V		0.83kg	
		AC110V		1.06kg	
		AC220V		1.06kg	
ST80MLF-WM Steady/Flashing/5 Melodies	5	AC/DC12V		0.97kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
ST80MLF-WA Steady/Flashing/5 Alarms		AC/DC24V		0.97kg	
		AC110V		1.20kg	
		AC220V		1.20kg	

※ CE Compliant: DC12V, DC24V(Except sound types)

※ UL Listed: DC24V(Except sound types)

Light source/buzzer current(based on 1 layer)

Voltage	AC/DC12V	AC/DC24V	AC110V	AC220V
Light source current(1 layer)	160mA	95mA	70mA	55mA
Buzzer current	40mA	75mA	50mA	40mA
Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA

Customization

- AC type each layer power provided(same wiring DC steady)
- DC24V voltage UL listed product
- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep)buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall



Wall mount bracket
TWS80



Wall mount bracket
TWA80

Ordering Specifications

ST80ML	-	3	-	110	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
ST80ML		1-1 Layer		12-DC12V		● R-Red
ST80ML-BZ		2-2 Layers		24-DC24V		● A-Amber
ST80ML-WS		3-3 Layers		110-AC110V		● G-Green
ST80ML-WM		4-4 Layers		220-AC220V		● B-Blue
ST80ML-WA		5-5 Layers				○ W-White
ST80MLF						
ST80MLF-BZ						
ST80MLF-WS						
ST80MLF-WM						
ST80MLF-WA						



ST80L Ø80mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
ST80L	1	AC/DC12V	CE UL	0.62kg	R-Red
Steady		AC/DC24V		0.62kg	
ST80L-BZ		AC110V		0.86kg	
Steady w/built-in buzzer		AC220V		0.86kg	
ST80L-WS	2	AC/DC12V		0.77kg	R-Red G-Green
Steady/5 Warning sounds		AC/DC24V		0.77kg	
ST80L-WM		AC110V		1.00kg	
Steady/5 Melodies		AC220V		1.00kg	
ST80L-WA	3	AC/DC12V		0.91kg	R-Red A-Amber G-Green
Steady/5 Alarms		AC/DC24V		0.91kg	
ST80LF		AC110V		1.14kg	
Steady/Flashing		AC220V		1.14kg	
ST80LF-BZ	4	AC/DC12V		1.05kg	R-Red A-Amber G-Green B-Blue
Steady/Flashing w/ built-in buzzer		AC/DC24V		1.05kg	
ST80LF-WS		AC110V		1.29kg	
Steady/Flashing/5 Warning sounds		AC220V		1.29kg	
ST80LF-WM	5	AC/DC12V		1.19kg	R-Red A-Amber G-Green B-Blue W-White
Steady/Flashing/5 Melodies		AC/DC24V		1.19kg	
ST80LF-WA		AC110V		1.14kg	
Steady/Flashing/5 Alarms		AC220V		1.14kg	

※ CE Compliant: DC12V, DC24V(Except sound types)

※ UL Listed: DC24V(Except sound types)

Light source/buzzer current(based on 1 layer)

Voltage	AC/DC12V	AC/DC24V	AC110V	AC220V
Light source current(1 layer)	160mA	95mA	70mA	55mA
Buzzer current	40mA	75mA	50mA	40mA
Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA

Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

ST80L	-	3	-	220	-	RAG	-	LW24
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
ST80L		1-1 Layer		12-DC12V		R-Red		None-Standard
ST80L-BZ		2-2 Layers		24-DC24V		A-Amber		Bracket
ST80L-WS		3-3 Layers		110-AC110V		G-Green		LB24-LW24
ST80L-WM		4-4 Layers		220-AC220V		B-Blue		QZ24-SZ24
ST80L-WA		5-5 Layers				W-White		QL24-SL24
ST80LF								
ST80LF-BZ								
ST80LF-WS								
ST80LF-WM								
ST80LF-WA								



ST80L Series

Built-in buzzer output
holes formed on the
housing of the product



Customization

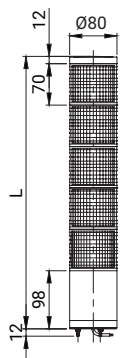
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- AC type each layer power provided (same wiring DC steady)
- DC24V voltage UL listed product
- Customized pole length available

ST80ML / ST80L

Technical Diagram

Units : mm

·ST80ML-AC/DC
·ST80MLF-AC/DC

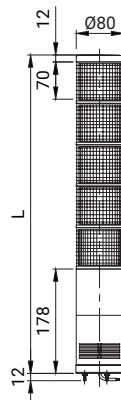


LAYER	L
1	180
2	250
3	320
4	390
5	460

·ST80ML-BZ-AC/DC
·ST80MLF-BZ-AC/DC

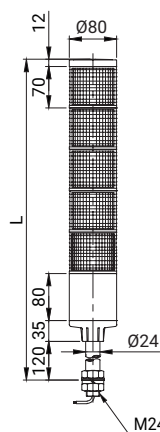


·ST80ML-W□
·ST80MLF-W□



LAYER	L
1	260
2	330
3	400
4	470
5	540

·ST80L-AC/DC
·ST80LF-AC/DC

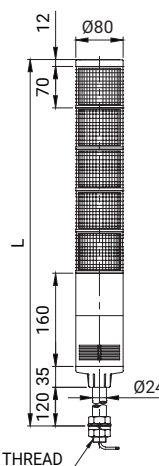


LAYER	L
1	317
2	387
3	457
4	527
5	597

·ST80L-BZ-AC/DC
·ST80LF-BZ-AC/DC



·ST80L-W□
·ST80LF-W□



LAYER	L
1	397
2	467
3	537
4	607
5	677

Wiring Instructions

- DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

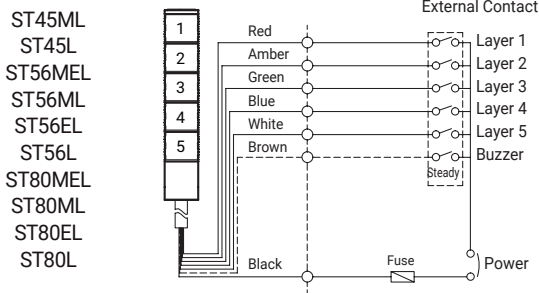
ST45L / ST56L / ST80L Series

Wiring Instructions

- In case of wiring with External Contacts, refer to the wiring diagrams below according to your product's type and voltage setting.
- Customized AC each layer power supply type wiring is same as DC steady type.

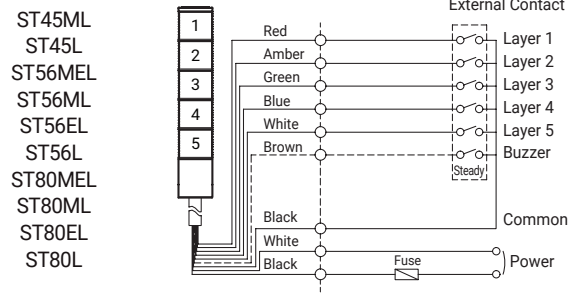
Wiring Instructions

DC Steady

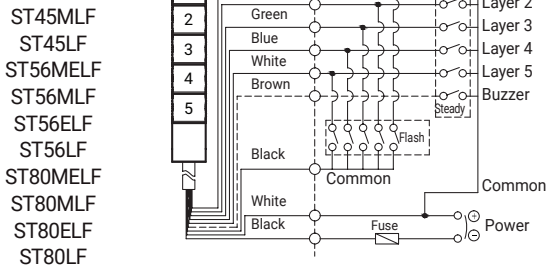


Wiring Instructions

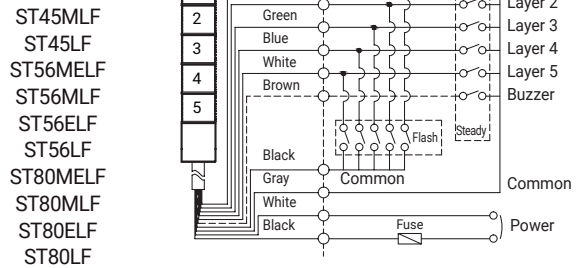
AC Steady



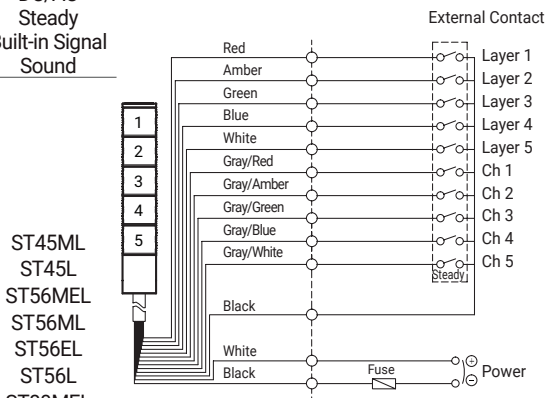
DC Steady/ Flashing



AC Steady/ Flashing

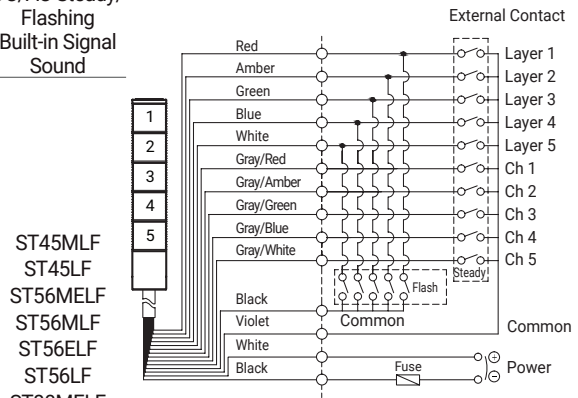


DC/AC Steady Built-in Signal Sound



- ST□□M(E)L - WS/WM/WA same wiring instruction
- ST□□(E)L - WS/WM/WA same wiring instruction
- ST□□L
 └ Lens diameter 45(45mm): ST45L
 56(56mm): ST56L
 80(80mm): ST80L

DC/AC Steady/ Flashing Built-in Signal Sound



- ST□□M(E)LF - WS/WM/WA same wiring instruction
- ST□□(E)LF - WS/WM/WA same wiring instruction
- ST□□LF
 └ Lens diameter 45(45mm): ST45LF
 56(56mm): ST56LF
 80(80mm): ST80LF

- DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
 External signal line - UL1007 AWG22(0.3sq) 400mm

ST45L / ST56L / ST80L Series

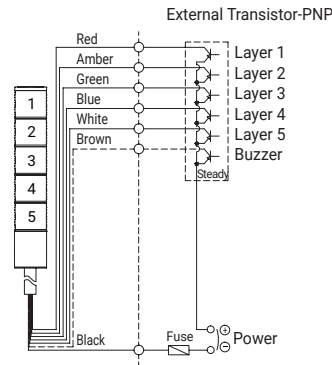
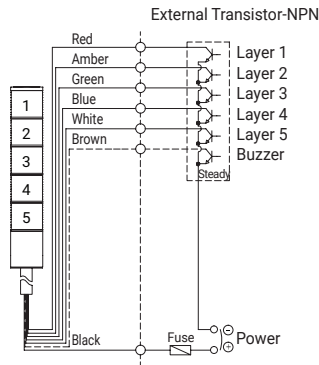
Wiring Instructions

· In case of wiring by transistor, please make sure if it is NPN type or PNP type. Please carefully follow wiring instruction below.

Wiring Instructions

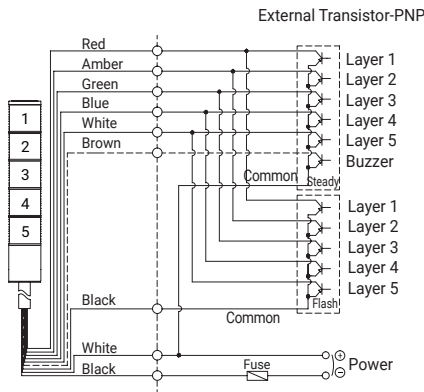
DC Steady

ST45ML
ST45L
ST56MEL
ST56ML
ST56EL
ST56L
ST80MEL
ST80ML
ST80EL
ST80L



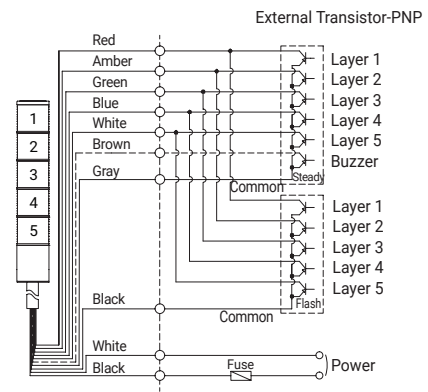
DC Steady/ Flashing

ST45MLF
ST45LF
ST56MLF
ST56MLF
ST56ELF
ST56LF
ST80MLF
ST80MLF
ST80ELF
ST80LF



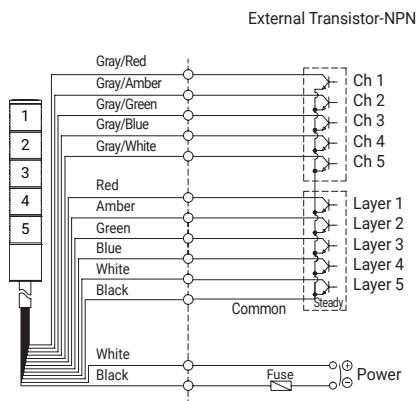
AC Steady/ Flashing

ST45MLF
ST45LF
ST56MLF
ST56MLF
ST56ELF
ST56LF
ST80MLF
ST80MLF
ST80ELF
ST80LF



DC/AC Steady Built-in Signal Sound

ST45ML
ST45L
ST56MEL
ST56ML
ST56EL
ST56L
ST80MEL
ST80ML
ST80EL
ST80L

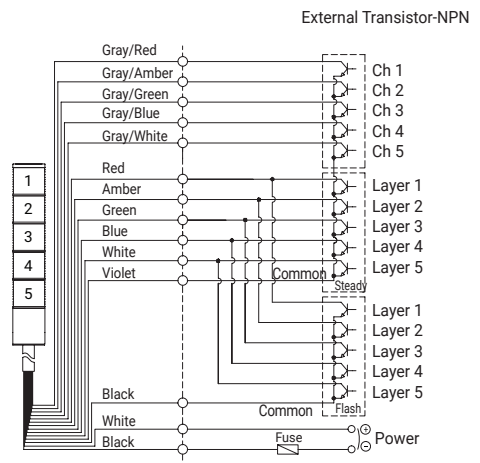


· ST□□M(E)L - WS/WM/WA same wiring instruction
· ST□□(E)L - WS/WM/WA same wiring instruction
· ST□□L

Lens diameter 45(45mm): ST45L
56(56mm): ST56L
80(80mm): ST80L

DC/AC Steady/ Flashing Built-in Signal Sound

ST45MLF
ST45LF
ST56MLF
ST56MLF
ST56ELF
ST56LF
ST80MLF
ST80MLF
ST80ELF
ST80LF



· ST□□M(E)L - WS/WM/WA same wiring instruction
· ST□□(E)L - WS/WM/WA same wiring instruction
· ST□□L

Lens diameter 45(45mm): ST45L
56(56mm): ST56L
80(80mm): ST80L

· DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm

· AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm

External signal line - UL1007 AWG22(0.3sq) 400mm

Ø56mm LED Steady/Flashing Tower Lights

EST56L



PRODUCT SPECIFICATION

EST56L

Materials Lens-AS, Housing-ABS, Pole-Al
Ambient operating temperature -30°C to +50°C
Volume Max.90dB at 1m(Built-in buzzer type)
Protection rating IP23
Flashing rate 60-80/min
Compliant with RoHS directive

- Ø56mm LED Steady/Flashing Tower Lights
- Built-in buzzer available upon request : audible signal can be delivered
- Transistors can be connected and can be operated on PLC directly
 DC type : Steady-NPN/PNP, Steady/Flashing-PNP
- Base module and Cover color are available between Ivory and Black



EST56L

EST56L Ø56mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
EST56L Steady	1			0.29kg	R-Red
EST56L-BZ Steady w/built-in buzzer	2	DC24V	CE	0.32kg	R-Red G-Green
EST56LF Steady/Flashing					R-Red A-Amber G-Green
EST56LF-BZ Steady/Flashing w/built-in buzzer	3			0.36kg	
EST56L Steady	1			0.30kg	R-Red
EST56L-BZ Steady w/built-in buzzer	2	AC220V	-	0.33kg	R-Red G-Green
EST56LF Flashing					R-Red A-Amber G-Green
EST56LF-BZ Flashing w/built-in buzzer	3			0.37kg	

Signal/Audible Line Current (per each layer)

	Voltage	DC24V	AC220V
Signal line current		60mA	25mA
Audible line current		75mA	25mA

Wiring Instructions

- External power line
- UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line
- UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Customization

- Support for DC12V type products (Customization : EST56L, EST56L-BZ 3layers)

Mounting bracket

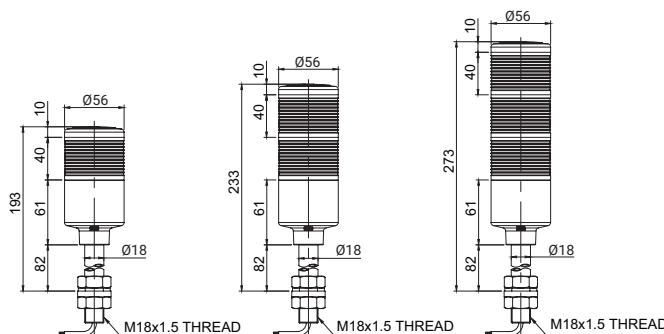
Standard	LB18	LW18	QZ18
Steel	Steel	ABS	ABS
SZ18	QL18	SL18	FB18
AI	ABS	AI	ABS

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Technical Diagram

Units : mm

- EST56LF-BZ-1-R : DC/AC
- EST56LF-1-R : DC/AC
- EST56L-BZ-1-R : DC/AC
- EST56L-1-R : DC/AC
- EST56LF-BZ-2-RG : DC/AC
- EST56LF-2-RG : DC/AC
- EST56L-BZ-2-RG : DC/AC
- EST56L-2-RG : DC/AC
- EST56LF-BZ-3-RAG : DC/AC
- EST56LF-3-RAG : DC/AC
- EST56L-BZ-3-RAG : DC/AC
- EST56L-3-RAG : DC/AC

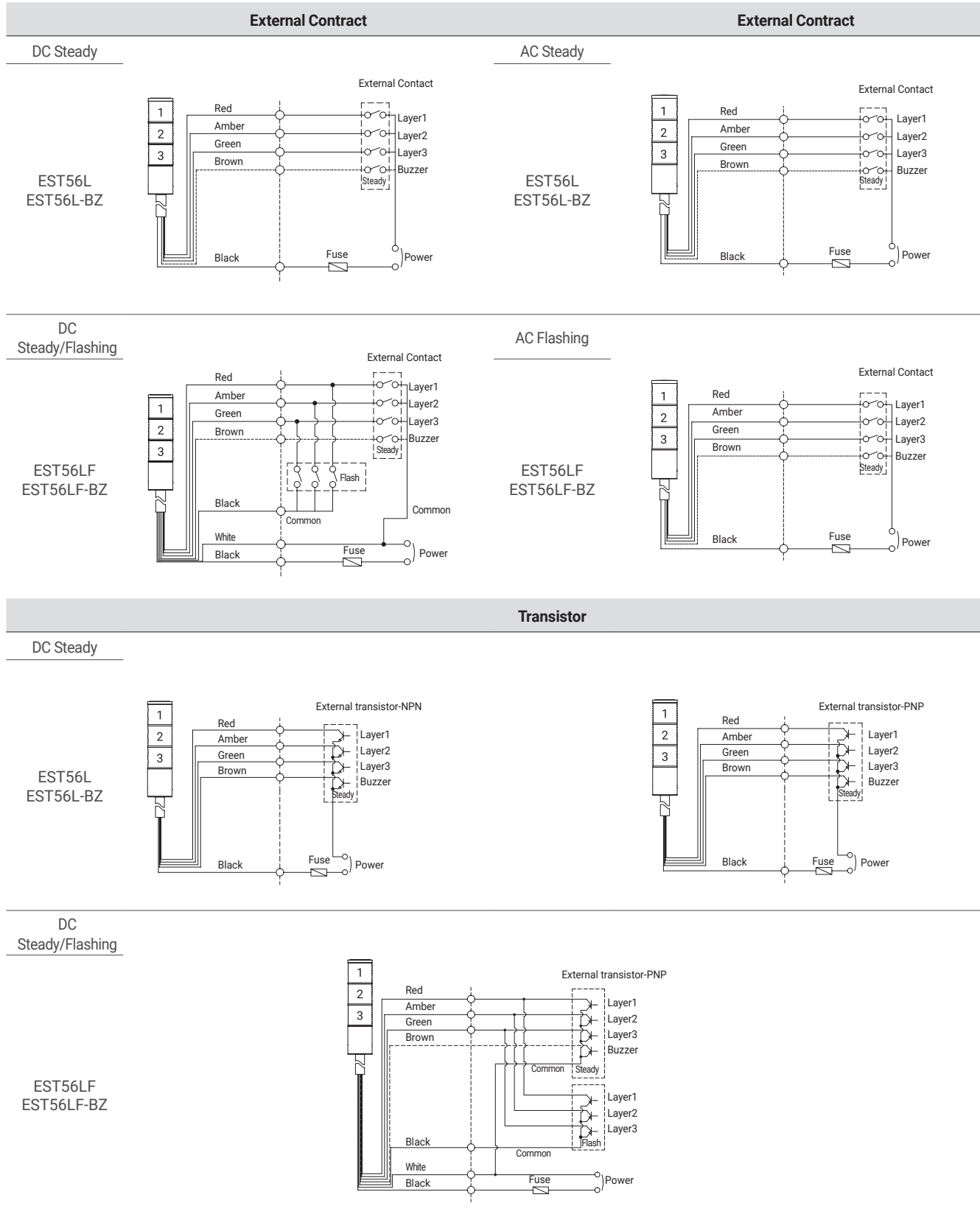


Ordering Specifications

EST56L	-	3	-	220	-	RAG	-	LW18	-	BK
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]		[Base module/cover color]
EST56L		1-1 Layer		24-DC24V		R-Red		None-Standard		None-Ivory
EST56LF		2-2 Layers		220-AC220V		A-Amber		Bracket		BK-Black
EST56L-BZ		3-3 Layers				G-Green		LB18-LW18		
EST56LF-BZ								QZ18-SZ18		
								QL18-SL18		
								FB18		

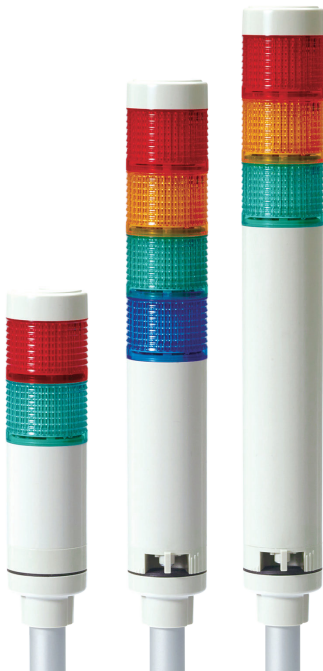
Wiring Instructions

- In case of wiring with External Contacts, refer to the wiring diagrams below according to your product's type and voltage setting.
- In case of wiring by transistor, please make sure if it is NPN type or PNP type. Please carefully follow wiring instruction below.



Ø40mm LED Steady/Flashing Tower Lights

STG40L



STG40L Series

Buzzer model has a lever mounted at the bottom of the product to adjust the volume depending on the specific working conditions. (BZ type)



Customization

- Customized pole length available
- DC24V voltage UL listed product
- M12 connector type: Standard entry cable included. Can customize the product with the M12 connector if requested (Female M12 connector is not provided)

Mounting bracket

Standard LB18 LW18 QZ18



Steel Steel ABS ABS

SZ18 QL18 SL18



AI ABS AI

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

STG40L Ø40mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
STG40L Steady STG40L-BZ Steady w/built-in buzzer STG40LF Steady/Flashing STG40LF-BZ Steady/Flashing w/ built-in buzzer	1	DC12V DC24V AC110V-220V	CE UL	0.27kg 0.27kg 0.33kg	● R-Red
	2	DC12V DC24V AC110V-220V		0.30kg 0.30kg 0.36kg	● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		0.33kg 0.33kg 0.39kg	● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		0.36kg 0.36kg 0.42kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		0.39kg 0.39kg 0.45kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

※ AC type model has a free-voltage range of 100V-240V.

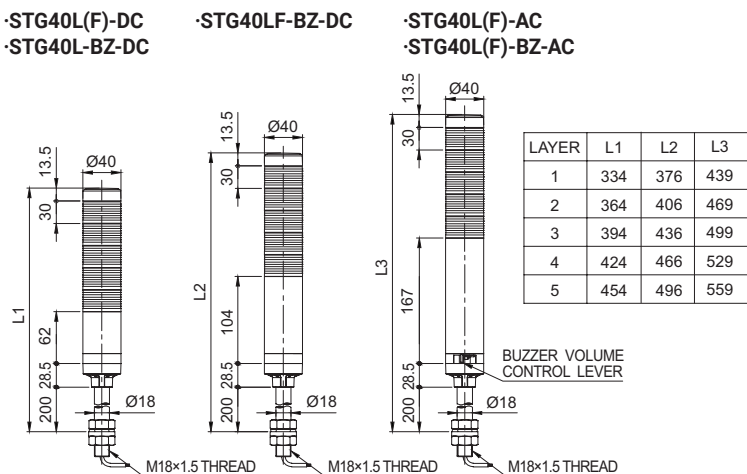
※ CE compliant: DC12V, DC24V, UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	95mA	55mA	Max.45mA
Buzzer current	50mA	75mA	Max.55mA

Technical Diagram

Units : mm



Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Ordering Specifications

STG40L	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
STG40ML		1-1 Layer		12-DC12V		● R-Red		· None-Standard
STG40ML-BZ		2-2 Layers		24-DC24V		● A-Amber		· Bracket
STG40MLF		3-3 Layers		110/220-AC110V-220V		● G-Green		-LB18-LW18
STG40MLF-BZ		4-4 Layers				● B-Blue		-QZ18-SZ18
STG40L		5-5 Layers				○ W-White		-QL18-SL18
STG40L-BZ								
STG40LF								
STG40LF-BZ								

Ø50mm LED Steady/Flashing Tower Lights

STG50ML



PRODUCT SPECIFICATION

STG50ML | STG50L

Materials Lens-AS, Housing-ABS, Pole-Al

Ambient operating temperature -30°C to +50°C

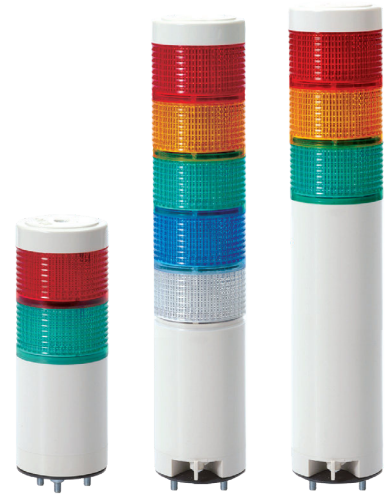
Volume Max.85dB at 1m

Protection rating Standard type-IP65, Built-in buzzer type-IP54

Flashing rate 60-80/min

Compliant with RoHS directive

- Ø50mm LED steady/flashing tower lights
- The special vertical contact structure of the lens allows for easy assembly and disassembly
- Built-in buzzer available upon request: audible signal can be delivered
- Transistors can be connected and can be operated on PLC directly
- Customized color arrangement available(LED light distribution system and lens is integrated into a combined structure)
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment.



STG50ML Series

STG50ML Ø50mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
STG50ML Steady STG50ML-BZ Steady w/built-in buzzer STG50MLF Steady/Flashing STG50MLF-BZ Steady/Flashing w/ built-in buzzer	1	DC12V DC24V AC110V-220V	CE UL	0.15kg 0.15kg 0.21kg	R-Red
	2	DC12V DC24V AC110V-220V		0.18kg 0.18kg 0.24kg	R-Red G-Green
	3	DC12V DC24V AC110V-220V		0.21kg 0.21kg 0.27kg	R-Red A-Amber G-Green
	4	DC12V DC24V AC110V-220V		0.24kg 0.24kg 0.30kg	R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V AC110V-220V		0.27kg 0.27kg 0.33kg	R-Red A-Amber G-Green B-Blue W-White

※ AC type model has a free-voltage range of 100V-240V.

※ CE Compliant: DC12V, DC24V, UL Listed: DC24V

Buzzer model has a lever mounted at the bottom of the product to adjust the volume depending on the specific working conditions. (BZ type)

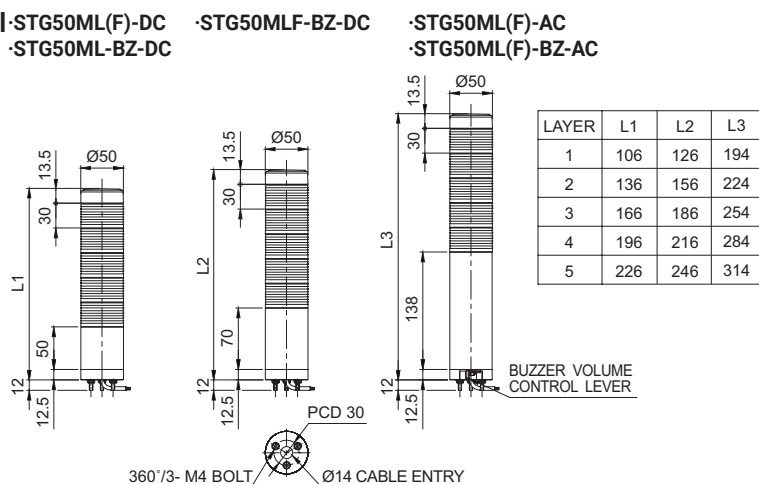


Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	55mA	50mA	Max.40mA
Buzzer current	40mA	75mA	Max.60mA

Technical Diagram

Units : mm



Customization

- 2 buzzer sound types : Both prolonged (beep, beep) and staccato(beep, beep, beep) buzzer output available
- DC24V voltage UL listed product
- M12 connector type: Standard entry cable included. Can customize the product with the M12 connector if requested(Female M12 connector is not provided)
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall



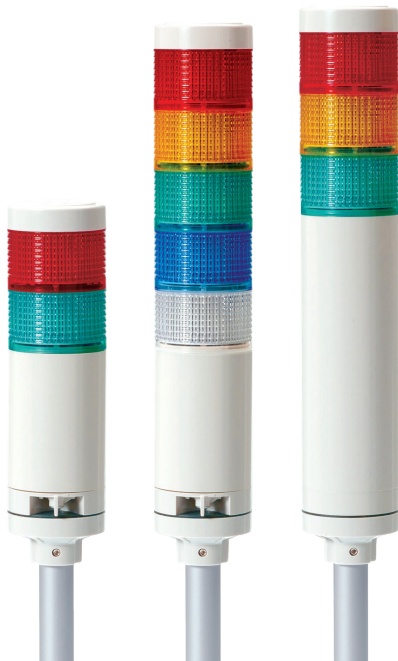
Wall mount bracket TWS45



Wall mount bracket TWA45

Ø50mm LED Steady/Flashing Tower Lights

STG50L



STG50L Series

Buzzer model has a lever mounted at the bottom of the product to adjust the volume depending on the specific working conditions. (BZ type)



Customization

- Customized pole length available
- DC24V voltage UL listed product
- M12 connector type: Standard entry cable included. Can customize the product with the M12 connector if requested (Female M12 connector is not provided)

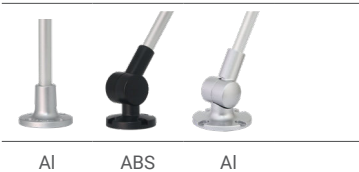
Mounting bracket

Standard LB18 LW18 QZ18



Steel Steel ABS ABS

SZ18 QL18 SL18



※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

STG50L Ø50mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
STG50L	1	DC12V	CE UL	0.29kg	● R-Red
		DC24V		0.29kg	
Steady	2	AC110V-220V		0.36kg	● R-Red ● G-Green
		DC12V		0.32kg	
STG50L-BZ	3	DC24V		0.32kg	● R-Red ● A-Amber ● G-Green
		AC110V-220V		0.39kg	
Steady w/built-in buzzer	4	DC12V		0.35kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		DC24V		0.35kg	
STG50LF	5	AC110V-220V		0.42kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
		DC12V		0.38kg	
Steady/Flashing		DC24V		0.38kg	
		AC110V-220V		0.45kg	
STG50LF-BZ		DC12V		0.41kg	
		DC24V		0.41kg	
Steady/Flashing w/built-in buzzer		AC110V-220V		0.48kg	
		DC12V		0.41kg	
		DC24V		0.41kg	
		AC110V-220V		0.48kg	

※ AC type model has a free-voltage range of 100V-240V.

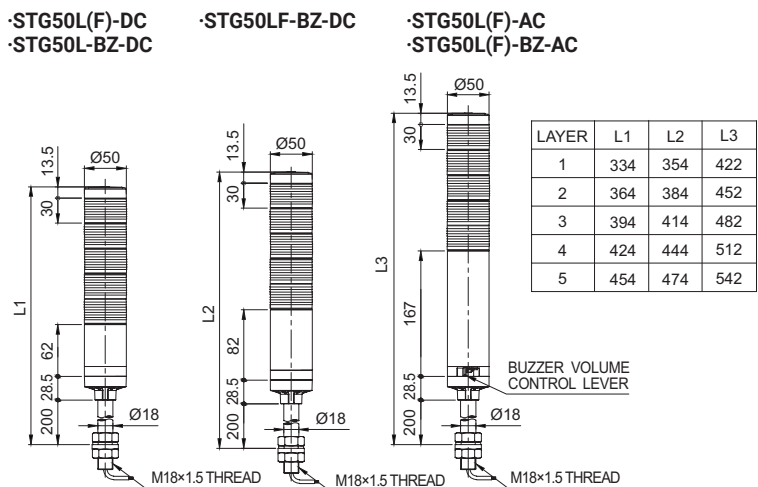
※ CE compliant: DC12, DC24V, UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	55mA	50mA	Max.40mA
Buzzer current	40mA	75mA	Max.60mA

Technical Diagram

Units : mm



Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Ordering Specifications

STG50L	3	24	RAG	LW18
[Model number]	[Layers]	[Voltage]	[Color]	[Bracket]
STG50ML	1-1 Layer	12-DC12V	● R-Red	· None-Standard
STG50ML-BZ	2-2 Layers	24-DC24V	● A-Amber	· Bracket
STG50MLF	3-3 Layers	110/220-AC110V-220V	● G-Green	-LB18 -LW18
STG50MLF-BZ	4-4 Layers		● B-Blue	-QZ18 -SZ18
STG50L	5-5 Layers		○ W-White	-QL18 -SL18
STG50L-BZ				
STG50LF				
STG50LF-BZ				

Ø60mm LED Steady/Flashing Tower Lights

STG60ML



PRODUCT SPECIFICATION

STG60ML | STG60L

Materials Lens-AS, Housing-ABS, Pole-Al

Ambient operating temperature -30°C to +50°C

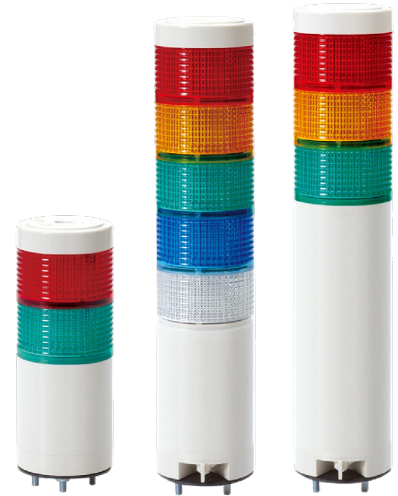
Volume Max.85dB at 1m

Protection rating Standard type-IP65, Built-in buzzer type-IP54

Flashing rate 60-80/min

Compliant with RoHS directive

- Ø60mm LED steady/flashing tower lights
- The special vertical contact structure of the lens allows for easy assembly and disassembly
- Built-in buzzer available upon request: audible signal can be delivered
- Transistors can be connected and can be operated on PLC directly
- Customized color arrangement available(LED light distribution system and lens is integrated into a combined structure)
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment.



STG60ML Series

Buzzer model has a lever mounted at the bottom of the product to adjust the volume depending on the specific working conditions. (BZ type)



STG60ML Ø60mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
STG60ML Steady STG60ML-BZ Steady w/ built-in buzzer STG60MLF Steady/Flashing STG60MLF-BZ Steady/Flashing w/ built-in buzzer	1	DC12V DC24V AC110V-220V	CE UL	0.25kg 0.25kg 0.34kg	R-Red
	2	DC12V DC24V AC110V-220V		0.28kg 0.28kg 0.37kg	R-Red G-Green
	3	DC12V DC24V AC110V-220V		0.31kg 0.31kg 0.40kg	R-Red A-Amber G-Green
	4	DC12V DC24V AC110V-220V		0.34kg 0.34kg 0.43kg	R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V AC110V-220V		0.37kg 0.37kg 0.46kg	R-Red A-Amber G-Green B-Blue W-White

※ AC type model has a free-voltage range of 100V-240V.

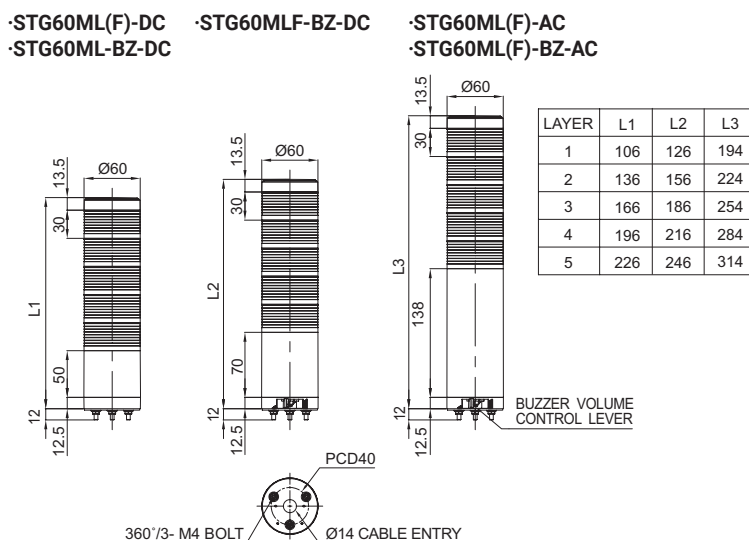
※ CE compliant: DC12, DC24V, UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	85mA	60mA	Max.50mA
Buzzer current	40mA	75mA	Max.60mA

Technical Diagram

Units : mm



Customization

- 2 buzzer sound types : Both prolonged (beep, beep) and staccato(beep, beep, beep) buzzer output available
- DC24V voltage UL listed product
- M12 connector type: Standard entry cable included. Can customize the product with the M12 connector if requested(Female M12 connector is not provided)
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall



Wall mount bracket TWS45



Wall mount bracket TWA45

Ø60mm LED Steady/Flashing Tower Lights

STG60L



STG60L Series

Buzzer model has a lever mounted at the bottom of the product to adjust the volume depending on the specific working conditions. (BZ type)



Customization

- Customized pole length available
- DC24V voltage UL listed product
- M12 connector type: Standard entry cable included. Can customize the product with the M12 connector if requested (Female M12 connector is not provided)

Mounting bracket

Standard LB18 LW18 QZ18



Steel Steel ABS ABS
SZ18 QL18 SL18



AI ABS AI

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

STG60L Ø60mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
STG60L Steady	1	DC12V	CE UL	0.40kg	● R-Red
		DC24V		0.40kg	
		AC110V-220V		0.48kg	
STG60L-BZ Steady w/built-in buzzer	2	DC12V		0.43kg	● R-Red ● G-Green
		DC24V		0.43kg	
		AC110V-220V		0.51kg	
STG60LF Steady/Flashing	3	DC12V		0.46kg	● R-Red ● A-Amber ● G-Green
		DC24V		0.46kg	
		AC110V-220V		0.54kg	
STG60LF-BZ Steady/Flashing w/ built-in buzzer	4	DC12V		0.49kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		DC24V		0.49kg	
		AC110V-220V		0.57kg	
	5	DC12V		0.52kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
		DC24V		0.52kg	
		AC110V-220V		0.61kg	

※ AC type model has a free-voltage range of 100V-240V.

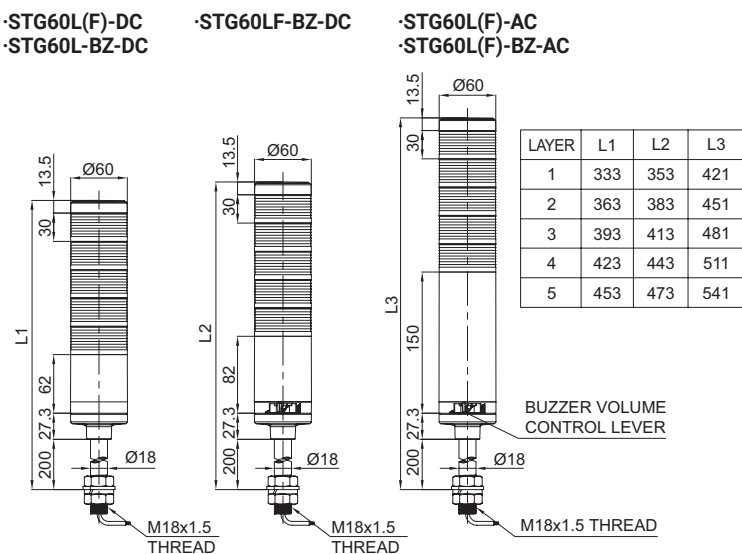
※ CE Compliant: DC12V, DC24V, UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	85mA	60mA	Max.50mA
Buzzer current	40mA	75mA	Max.60mA

Technical Diagram

Units : mm



Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Ordering Specifications

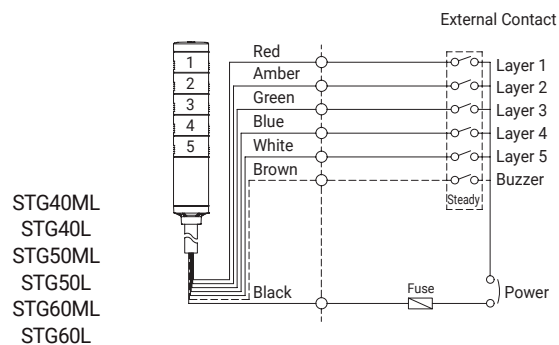
STG60L	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
STG60ML		1-1 Layer		12-DC12V		● R-Red		· None-Standard
STG60ML-BZ		2-2 Layers		24-DC24V		● A-Amber		· Bracket
STG60MLF		3-3 Layers		110/220		● G-Green		-LB18-LW18
STG60MLF-BZ		4-4 Layers		-AC110V-220V		● B-Blue		-QZ18-SZ18
STG60L		5-5 Layers				○ W-White		-QL18-SL18
STG60L-BZ								
STG60LF								
STG60LF-BZ								

Wiring Instructions(using External Contact)

· In case of wiring with External Contacts, refer to the wiring diagrams below according to your product's type and voltage setting.

Wiring Instructions

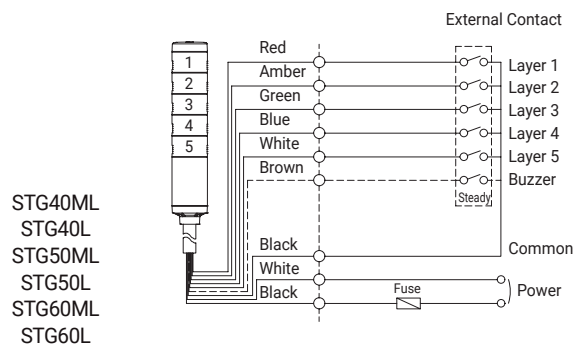
DC Steady



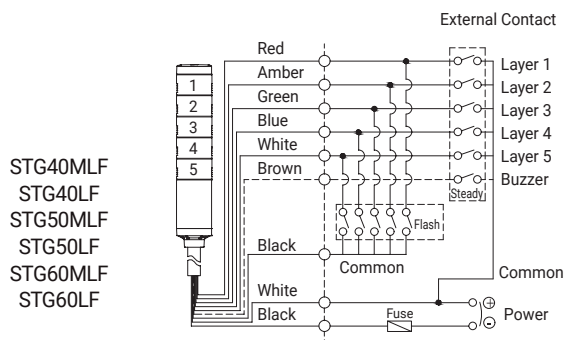
- STG □□ (M)L - Buzzer same wiring instruction
- STG □□ L
 - └ Lens diameter 40(40mm): STG40(M)L
 - 50(50mm): STG50(M)L
 - 60(60mm): STG60(M)L

Wiring Instructions

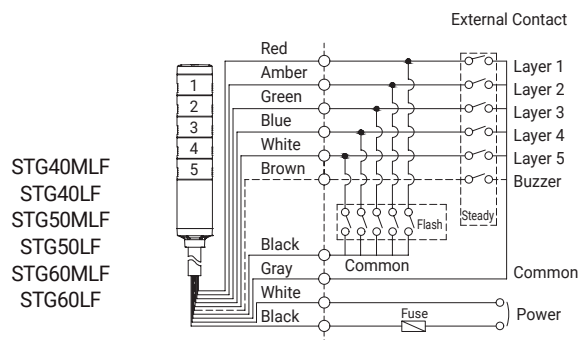
AC Steady



- STG □□ (M)L - Buzzer same wiring instruction
- STG □□ L
 - └ Lens diameter 40(40mm): STG40(M)L
 - 50(50mm): STG50(M)L
 - 60(60mm): STG60(M)L

DC Steady/
Flashing

- STG □□ (M)LF - Buzzer same wiring instruction
- STG □□ LF
 - └ Lens diameter 40(40mm): STG40(M)LF
 - 50(50mm): STG50(M)LF
 - 60(60mm): STG60(M)LF

AC Steady/
Flashing

- STG □□ (M)LF - Buzzer same wiring instruction
- STG □□ LF
 - └ Lens diameter 40(40mm): STG40(M)LF
 - 50(50mm): STG50(M)LF
 - 60(60mm): STG60(M)LF

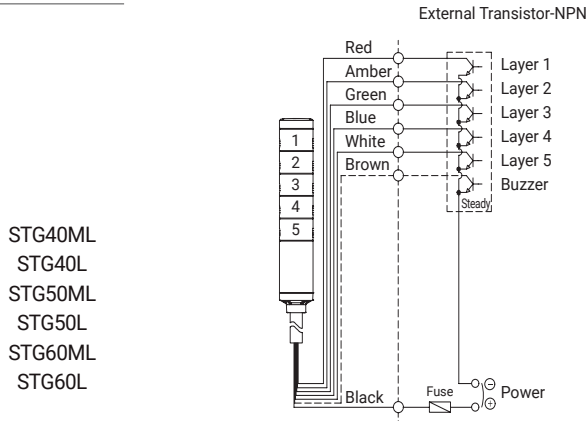
- DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm

Wiring Instructions(using transistor)

· In case of wiring by transistor, please make sure if it is NPN type or PNP type. Please carefully follow wiring instructions below.

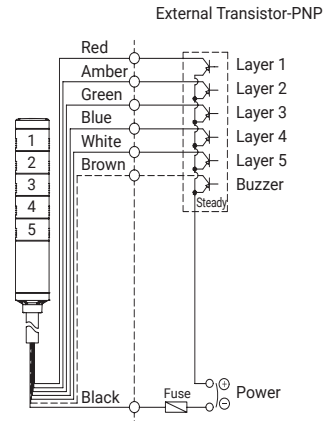
Wiring Instructions

DC Steady

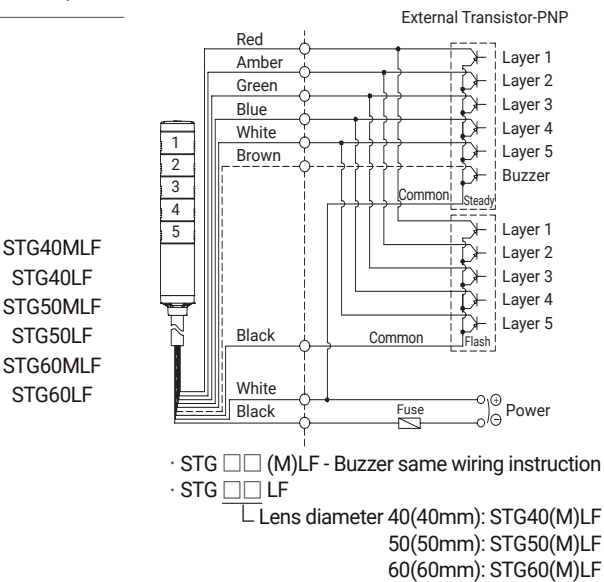


STG40ML
STG40L
STG50ML
STG50L
STG60ML
STG60L

- STG □□ (M)L - Buzzer same wiring instruction
- STG □□ L
 - └ Lens diameter 40(40mm): STG40(M)L
 - 50(50mm): STG50(M)L
 - 60(60mm): STG60(M)L

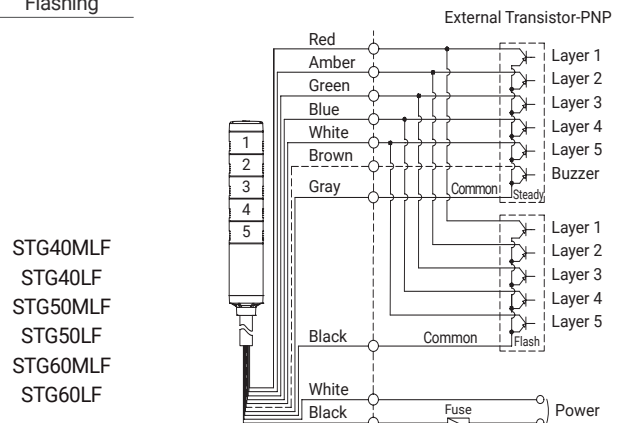


DC Steady/Flas



STG40MLF
STG40LF
STG50MLF
STG50LF
STG60MLF
STG60LF

- STG □□ (M)LF - Buzzer same wiring instruction
- STG □□ LF
 - └ Lens diameter 40(40mm): STG40(M)LF
 - 50(50mm): STG50(M)LF
 - 60(60mm): STG60(M)LF

AC Steady/
Flashing

STG40MLF
STG40LF
STG50MLF
STG50LF
STG60MLF
STG60LF

- STG □□ (M)LF - Buzzer same wiring instruction
- STG □□ LF
 - └ Lens diameter 40(40mm): STG40(M)LF
 - 50(50mm): STG50(M)LF
 - 60(60mm): STG60(M)LF

- DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm

PRODUCT SPECIFICATION

QTG Series

Materials Lens-PC, Housing-ABS, Pole-Al

Ambient operating temperature -30°C to +50°C

Volume Max.85dB at 1m

Protection rating Standard type-IP65, Built-in buzzer type-IP54

Flashing rate 60-80/min

Compliant with RoHS directive

- Modular LED steady/flashing type signal tower lights
- Excellent visibility from a distance with the use of a special color diffusing lens
- Can select from size selections of Ø50mm, Ø60mm, and Ø70mm to fit your sophisticated application needs
- The addition of modules and change in color arrangement can be achieved without the use of tools by using the Lock-type structure
- QTGA type offers a nifty integrated lens and cover for a simple aesthetically pleasing product
- A variety of Mounting bracket selections for the pole mount type to fit your location and mounting needs
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment.
- Available in 2 customized options; sounds buzzer type and high volume(100dB) buzzer type
- Wired type and M12 connector type allow for a customized model that M12 connector can be attached at the end of wires.
- Transistors can be connected and can be operated on PLC directly



Each modular color lens can be added without additional tools



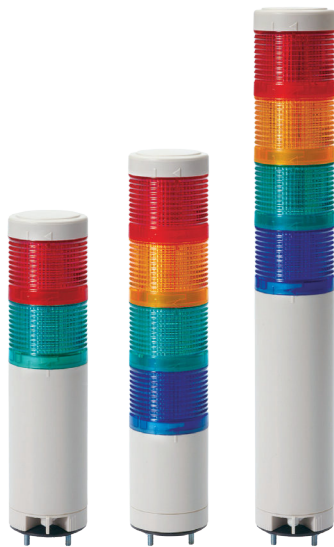
QTG model uses a special contact structure for stable operation, the lens modules lock into place by rotating the modular structures together. This allows for easy changes to the color arrangement without any tools. Additional modules can be added.



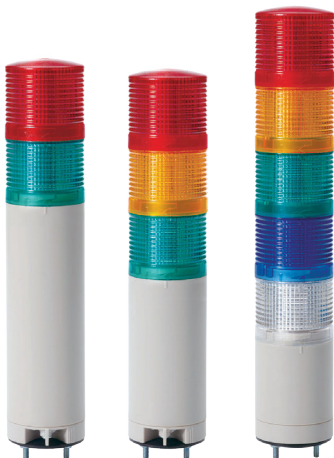
- High volume buzzer(100dB) option can be fitted to the top of the product(Customization).**
High volume 100dB volume buzzer module fastened to the top of the product provides 360 degree buzzer signal output which cannot be achieved with the single directional buzzer.(Buzzer volume cannot be adjusted)
- Integrated cover and lens model(QTGA50 / QTGA60 / QTGA70)**
QTGA50 / QTGA60 / QTGA70 the sleek lens cover model is made of one piece for a simple unified look.
- Buzzer volume is adjusted via the volume control lever**
QTG type volume can be adjusted for each specific working condition with the equipped buzzer volume control lever at the bottom of the product.(-BZ type)
- M12 connector attached type(Customization)**
Pre-wired is standard. Can customize the product with the M12 connector if requested.
- Can select from a variety of Mounting brackets option to fit your application needs and build environment**
There are a variety of Mounting bracket options available depending on cost and installation requirements.

Ø50mm LED Steady/Flashing Tower Lights

QTG50ML / QTG50L



QTG50ML Series



QTGA50ML Series



High-volume buzzer module

QTG50ML Ø50mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTG50ML Steady	1	DC12V		0.19kg	● R-Red
QTG50ML-BZ Steady w/built-in buzzer		DC24V		0.19kg	
		AC110V-220V		0.29kg	
QTG50MLF Steady/Flashing	2	DC12V		0.27kg	● R-Red ● G-Green
QTG50MLF-BZ Steady/Flashing w/ built-in buzzer		DC24V		0.27kg	
		AC110V-220V		0.37kg	
QTGA50ML Steady	3	DC12V	CE UL	0.36kg	● R-Red ● A-Amber ● G-Green
QTGA50ML-BZ Steady w/built-in buzzer		DC24V		0.36kg	
		AC110V-220V		0.46kg	
QTGA50MLF Steady/Flashing	4	DC12V		0.44kg	● R-Red ● A-Amber ● G-Green ● B-Blue
QTGA50MLF-BZ Steady w/built-in buzzer		DC24V		0.44kg	
		AC110V-220V		0.54kg	
QTGA50MLF-BZ Steady/Flashing w/ built-in buzzer	5	DC12V		0.53kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
		DC24V		0.53kg	
		AC110V-220V		0.63kg	

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	90mA	70mA	Max.55mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Customization

- DC24V voltage UL listed product
- M12 connector attached type
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)



Wall mount bracket
TWS45



Wall mount bracket
TWA45

Ordering Specifications

QTG50ML	-	3	-	110/220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QTG50ML		1-1 Layer		12-DC12V		● R-Red
QTG50ML-BZ		2-2 Layers		24-DC24V		● A-Amber
QTG50MLF		3-3 Layers		110/220-AC110V-220V		● G-Green
QTG50MLF-BZ		4-4 Layers				● B-Blue
QTGA50ML		5-5 Layers				○ W-White
QTGA50ML-BZ						
QTGA50MLF						
QTGA50MLF-BZ						



QTG50L Ø50mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTG50L Steady	1	DC12V	CE UL	0.34kg	● R-Red
QTG50L Steady w/built-in buzzer		DC24V		0.34kg	
QTG50L-BZ		AC110V-220V		0.44kg	
QTG50LF Steady/Flashing	2	DC12V		0.43kg	● R-Red
QTG50LF Steady/Flashing w/ built-in buzzer		DC24V		0.43kg	● G-Green
QTG50LF-BZ	3	DC12V		0.51kg	● R-Red
QTG50LF Steady/Flashing		DC24V		0.51kg	● A-Amber
QTG50LF Steady/Flashing w/ built-in buzzer		AC110V-220V		0.61kg	● G-Green
QTGA50L Steady	4	DC12V		0.60kg	● R-Red
QTGA50L Steady w/built-in buzzer		DC24V		0.60kg	● A-Amber
QTGA50L-BZ		AC110V-220V		0.70kg	● G-Green
QTGA50LF Steady/Flashing	5	DC12V		0.68kg	● R-Red
QTGA50LF Steady/Flashing w/ built-in buzzer		DC24V		0.68kg	● A-Amber
QTGA50LF Steady/Flashing		DC24V		0.68kg	● G-Green
QTGA50LF Steady/Flashing w/ built-in buzzer		AC110V-220V		0.78kg	● B-Blue

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V



QTG50L Series

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	90mA	70mA	Max.55mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions



QTGA50L Series

Ordering Specifications

QTG50L	-	3	-	110/220	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTG50L		1-1 Layer		12-DC12V		● R-Red		· None-Standard
QTG50L-BZ		2-2 Layers		24-DC24V		● A-Amber		· Bracket
QTG50LF		3-3 Layers		110/220-AC110V-220V		● G-Green		· LB18-LW18
QTG50LF-BZ		4-4 Layers				● B-Blue		· QZ18-SZ18
QTGA50L		5-5 Layers				○ W-White		· QL18-SL18
QTGA50L-BZ								
QTGA50LF								
QTGA50LF-BZ								

Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- DC24V voltage UL listed product
- M12 connector attached type
- Customized pole length available
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)

Ø60mm LED Steady/Flashing Tower Lights

QTG60ML / QTG60L



QTG60ML Series



QTGA60ML Series



QTG60ML Ø60mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTG60ML Steady	1	DC12V		0.26kg	● R-Red
QTG60ML-BZ Steady w/built-in buzzer		DC24V		0.26kg	
		AC110V-220V		0.36kg	
QTG60MLF Steady/Flashing	2	DC12V		0.34kg	● R-Red ● G-Green
QTG60MLF-BZ Steady/Flashing w/ built-in buzzer		DC24V		0.34kg	
		AC110V-220V		0.44kg	
QTGA60ML Steady	3	DC12V	CE UL	0.43kg	● R-Red ● A-Amber ● G-Green
QTGA60ML-BZ Steady w/built-in buzzer		DC24V		0.43kg	
		AC110V-220V		0.53kg	
QTGA60MLF Steady/Flashing	4	DC12V		0.51kg	● R-Red ● A-Amber ● G-Green ● B-Blue
QTGA60MLF-BZ Steady/Flashing w/ built-in buzzer		DC24V		0.51kg	
		AC110V-220V		0.61kg	
QTGA60MLF-BZ Steady/Flashing w/ built-in buzzer	5	DC12V		0.59kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
		DC24V		0.59kg	
		AC110V-220V		0.69kg	

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	105mA	70mA	Max.60mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Customization

- DC24V voltage UL listed product
- M12 connector attached type
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)



Wall mount bracket
TWS45



Wall mount bracket
TWA45

Ordering Specifications

QTG60ML	-	3	-	110/220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QTG60ML		1-1 Layer		12-DC12V		● R-Red
QTG60ML-BZ		2-2 Layers		24-DC24V		● A-Amber
QTG60MLF		3-3 Layers		110/220-AC110V-220V		● G-Green
QTG60MLF-BZ		4-4 Layers				● B-Blue
QTGA60ML		5-5 Layers				○ W-White
QTGA60ML-BZ						
QTGA60MLF						
QTGA60MLF-BZ						



High-volume buzzer module



QTG60L Ø60mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTG60L Steady	1	DC12V	CE UL	0.26kg	● R-Red
QTG60L-BZ		DC24V		0.26kg	
Steady w/built-in buzzer		AC110V-220V		0.36kg	
QTG60LF Steady/Flashing	2	DC12V		0.34kg	● R-Red ● G-Green
QTG60LF-BZ		DC24V		0.34kg	
Steady/Flashing w/ built-in buzzer		AC110V-220V		0.44kg	
QTGA60L Steady	3	DC12V		0.43kg	● R-Red ● A-Amber ● G-Green
QTGA60L-BZ		DC24V		0.43kg	
Steady w/built-in buzzer		AC110V-220V		0.53kg	
QTGA60LF Steady/Flashing	4	DC12V		0.51kg	● R-Red ● A-Amber ● G-Green ● B-Blue
QTGA60LF-BZ		DC24V		0.51kg	
Steady/Flashing w/ built-in buzzer		AC110V-220V		0.61kg	
QTGA60LF Steady/Flashing	5	DC12V		0.59kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
QTGA60LF-BZ		DC24V		0.59kg	
Steady/Flashing w/ built-in buzzer		AC110V-220V		0.69kg	

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V



QTG60L Series

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	105mA	70mA	Max.60mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

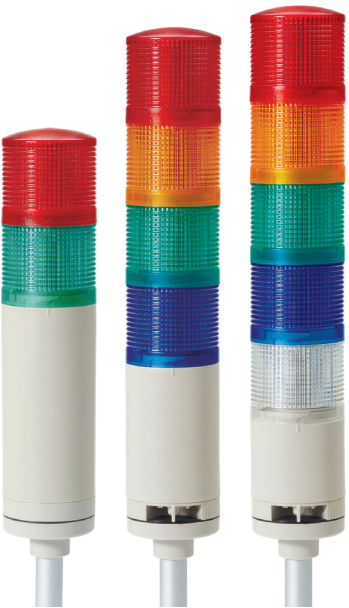
Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

QTG60L	-	3	-	110/220	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTG60L		1-1 Layer		12-DC12V		● R-Red		· None-Standard
QTG60L-BZ		2-2 Layers		24-DC24V		● A-Amber		· Bracket
QTG60LF		3-3 Layers		110/220-AC110V-220V		● G-Green		· LB18 -LW18
QTG60LF-BZ		4-4 Layers				● B-Blue		· QZ18 -SZ18
QTGA60L		5-5 Layers				○ W-White		· QL18 -SL18
QTGA60L-BZ								
QTGA60LF								
QTGA60LF-BZ								

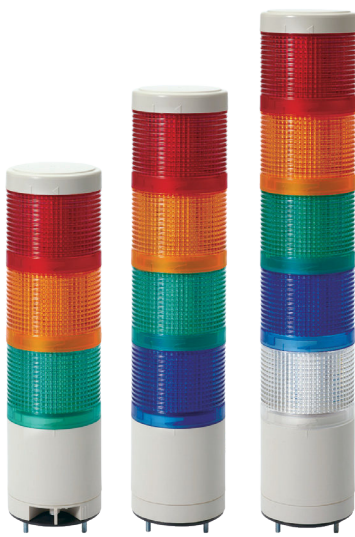


QTGA60L Series

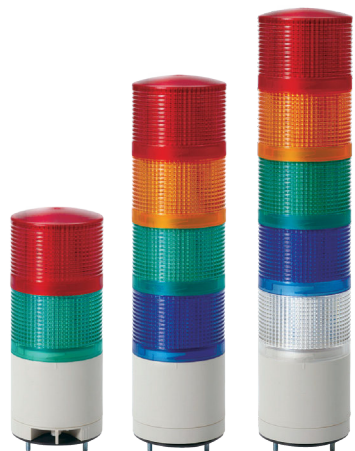
Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- DC24V voltage UL listed product
- M12 connector attached type
- Customized pole length available
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)

QTG70ML / QTG70L



QTG70ML Series



QTGA70ML Series



High-volume buzzer module

QTG70ML Ø70mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTG70ML Steady	1	DC12V		0.42kg	● R-Red
QTG70ML-BZ Steady w/built-in buzzer		DC24V		0.42kg	
		AC110V-220V		0.52kg	
QTG70MLF Steady/Flashing	2	DC12V		0.56kg	● R-Red ● G-Green
QTG70MLF-BZ Steady/Flashing w/ built-in buzzer		DC24V		0.56kg	
		AC110V-220V		0.66kg	
QTGA70ML Steady	3	DC12V	CE UL	0.77kg	● R-Red ● A-Amber ● G-Green
QTGA70ML-BZ Steady w/built-in buzzer		DC24V		0.77kg	
QTGA70MLF Steady/Flashing		AC110V-220V		0.87kg	
QTGA70MLF-BZ Steady/Flashing w/ built-in buzzer	4	DC12V		0.92kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		DC24V		0.92kg	
		AC110V-220V		1.02kg	
QTGA70MLF-BZ Steady/Flashing w/ built-in buzzer	5	DC12V		1.07kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
		DC24V		1.07kg	
		AC110V-220V		1.17kg	

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	105mA	70mA	Max.60mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Customization

- DC24V voltage UL listed product
- M12 connector attached type
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)



Wall mount bracket
TWS80



Wall mount bracket
TWA80

Ordering Specifications

QTG70ML	-	3	-	110/220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QTG70ML		1-1 Layer		12-DC12V		● R-Red
QTG70ML-BZ		2-2 Layers		24-DC24V		● A-Amber
QTG70MLF		3-3 Layers		110/220-AC110V-220V		● G-Green
QTG70MLF-BZ		4-4 Layers				● B-Blue
QTGA70ML		5-5 Layers				○ W-White
QTGA70ML-BZ						
QTGA70MLF						
QTGA70MLF-BZ						

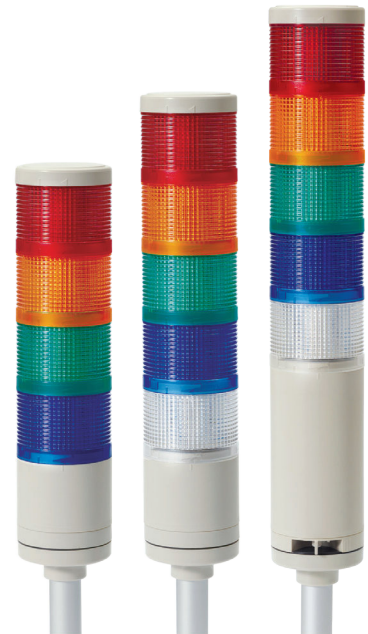


QTG70L Ø70mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTG70L Steady	1	DC12V	CE UL	0.42kg	R-Red
QTG70L-BZ		DC24V		0.42kg	
Steady w/built-in buzzer		AC110V-220V		0.52kg	
QTG70LF	2	DC12V		0.56kg	R-Red
Steady/Flashing		DC24V		0.56kg	G-Green
QTG70LF-BZ		AC110V-220V		0.66kg	
QTG70L	3	DC12V		0.77kg	R-Red
Steady/Flashing		DC24V		0.77kg	A-Amber
w/ built-in buzzer		AC110V-220V		0.87kg	G-Green
QTGA70L	4	DC12V		0.92kg	R-Red
Steady		DC24V		0.92kg	A-Amber
QTGA70L-BZ		AC110V-220V		1.02kg	G-Green
Steady w/built-in buzzer	5				B-Blue
QTGA70LF		DC12V		1.07kg	R-Red
Steady/Flashing		DC24V		1.07kg	A-Amber
QTGA70LF-BZ					G-Green
Steady/Flashing w/ built-in buzzer		AC110V-220V		1.17kg	B-Blue
					W-White

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V



QTG70L Series

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	105mA	70mA	Max.60mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions



QTGA70L Series

Ordering Specifications

QTG70L	-	3	-	110/220	-	RAG	-	LW24
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTG70L		1-1 Layer		12-DC12V		R-Red		None-Standard
QTG70L-BZ		2-2 Layers		24-DC24V		A-Amber		Bracket
QTG70LF		3-3 Layers		110/220-AC110V-220V		G-Green		-LB24 -LW24
QTG70LF-BZ		4-4 Layers				B-Blue		-QZ24 -SZ24
QTGA70L		5-5 Layers				W-White		-QL24 -SL24
QTGA70L-BZ								
QTGA70LF								
QTGA70LF-BZ								

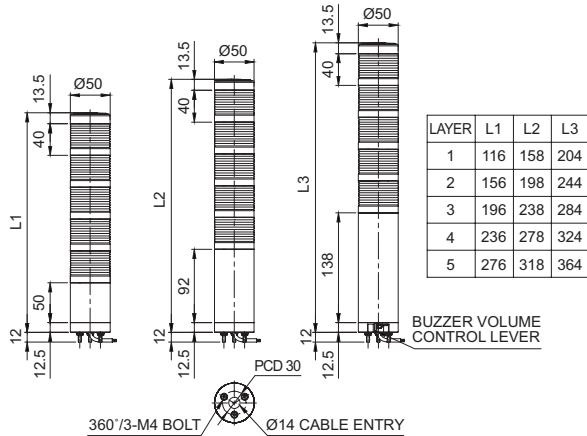
Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- DC24V voltage UL listed product
- M12 connector attached type
- Customized pole length available
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)

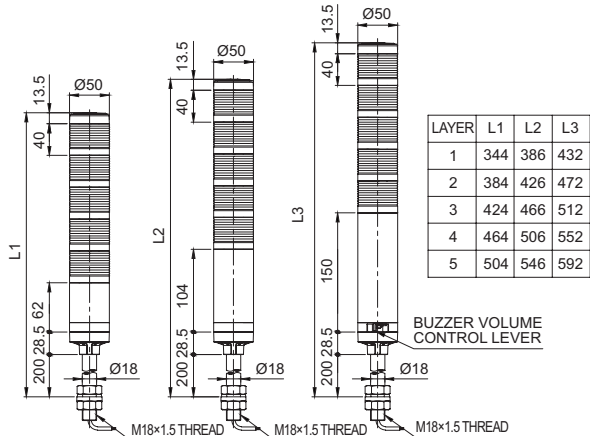
Technical Diagram

Units : mm

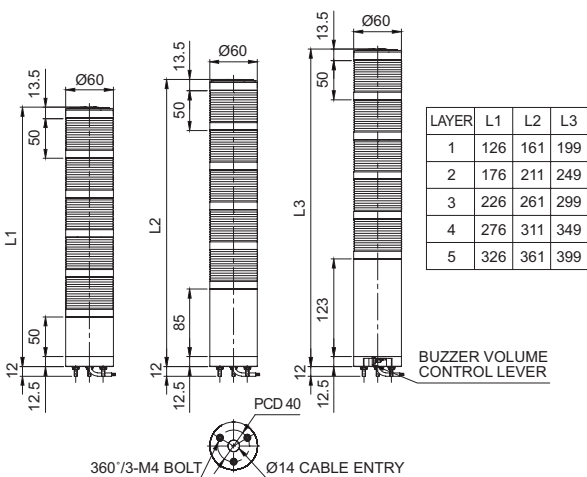
- QTG50ML-DC
- QTG50MLF-DC
- QTG50ML-BZ-DC
- QTG50ML-AC
- QTG50MLF-BZ-DC
- QTG50MLF-AC
- QTG50ML-BZ-AC
- QTG50MLF-BZ-AC



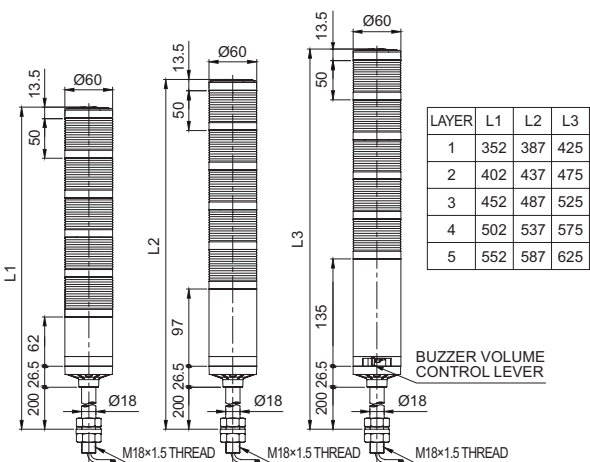
- QTG50L-DC
- QTG50LF-DC
- QTG50L-BZ-DC
- QTG50L-AC
- QTG50LF-BZ-DC
- QTG50LF-AC
- QTG50L-BZ-AC
- QTG50LF-BZ-AC



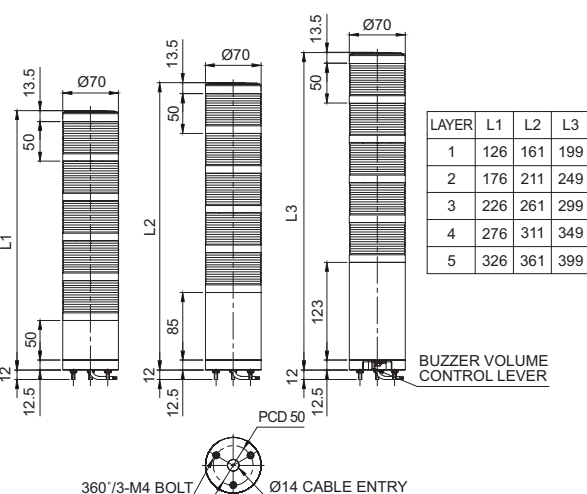
- QTG60ML-DC
- QTG60MLF-DC
- QTG60ML-BZ-DC
- QTG60ML-AC
- QTG60MLF-BZ-DC
- QTG60MLF-AC
- QTG60ML-BZ-AC
- QTG60MLF-BZ-AC



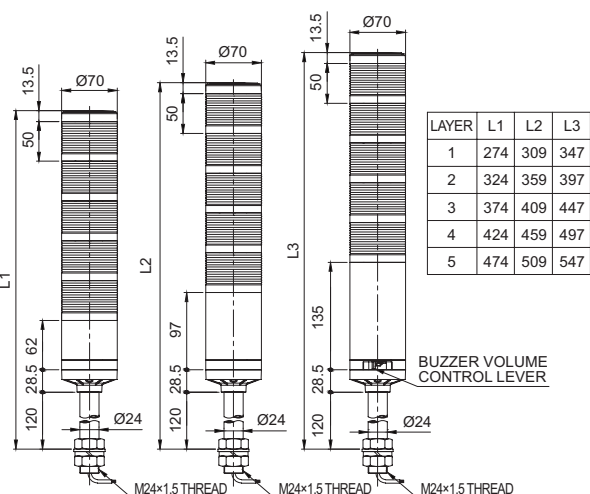
- QTG60L-DC
- QTG60LF-DC
- QTG60L-BZ-DC
- QTG60L-AC
- QTG60LF-BZ-DC
- QTG60LF-AC
- QTG60L-BZ-AC
- QTG60LF-BZ-AC



- QTG70ML-DC
- QTG70MLF-DC
- QTG70ML-BZ-DC
- QTG70ML-AC
- QTG70MLF-AC
- QTG70ML-BZ-AC
- QTG70MLF-BZ-AC
- QTG70MLF-BZ-DC



- QTG70L-DC
- QTG70LF-DC
- QTG70L-BZ-DC
- QTG70L-AC
- QTG70LF-AC
- QTG70L-BZ-AC
- QTG70LF-BZ-AC
- QTG70LF-BZ-DC



Separate Color Filter Lens Inside the Outer Lens Helps to Provide a Clear Signal

PRODUCT SPECIFICATION

QTC Series

Materials Lens-PC, Filter lens-PC, Housing-ABS, Pole-Al

Ambient operating temperature -30°C to +50°C

Volume Max.85dB at 1m

Protection rating Standard type-IP65, Built-in buzzer type-IP54

Flashing rate 60-80/min

Compliant with RoHS directive

- Modular LED steady/flashing signal tower lights
- Added a separate color filter lens inside the outer lens to help provide a clear signal
- Can select from size selections of Ø50mm, Ø60mm and Ø70mm to fit your sophisticated application needs
- The addition of modules and change in color arrangement can be achieved without the use of tools by using the Lock-type structure
- QTCA type offers a nifty integrated lens and cover for a simple aesthetically pleasing product
- When it is turned off the milky color filter provides comfortable viewing at close proximity for the operator
- A variety of Mounting bracket selections for the pole mount type to fit your location and mounting needs
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment.
- Available in customized 2 sound buzzer type and high volume(100dB) buzzer type
- Wired type and M12 connector type allow for a customized model that M12 connector can be attached at the end of wires.
- Transistors can be connected and can be operated on PLC directly



Each modular color lens can be added without additional tools



QTC model uses a special contact structure for stable operation, the lens modules lock into place by rotating the modular structures together. This allows for easy changes to the color arrangement without any tools. Additional modules can be added.

1 High volume buzzer(100dB) option can be fitted to the top of the product. (Customization)

High volume 100dB volume buzzer module fastened to the top of the product provides 360 degree buzzer signal output which cannot be achieved with the single directional buzzer.(Buzzer volume cannot be adjusted)

2 Integrated cover and lens model(QTCA50 / QTCA60 / QTCA70)

The sleek body cover and lens model is made of one piece for a simple unified look.

3 QTC Series Special Lens

QTC Series added a separate color filter lens inside the outer lens to help provide a clear signal.

4 Buzzer volume is adjusted via the volume control lever

QTC type volume can be adjusted for each specific working condition with the equipped buzzer volume control lever at the bottom of the product.(-BZ type)

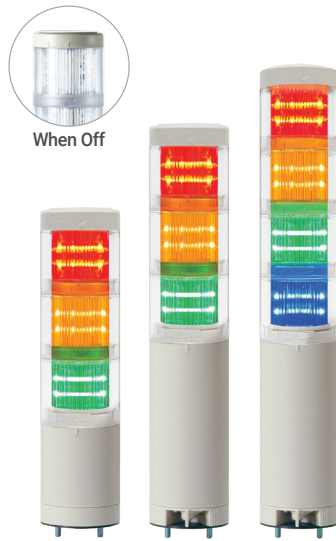
5 M12 connector attached type

M12 connector is standard(Female M12 connector is not provided).

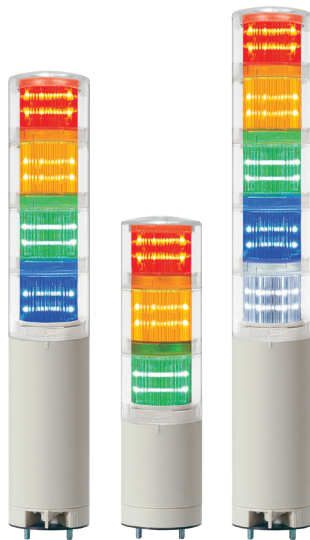
6 Can select from a variety of Mounting brackets option to fit your application needs and build environment

There are a variety of Mounting bracket options available depending on cost and installation requirements.

QTC50ML / QTC50L



QTC50ML Series



QTC50ML Series



High-volume buzzer module



QTC50ML Ø50mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTC50ML Steady	1	DC12V DC24V AC110V-220V		0.20kg 0.20kg 0.30kg	● R-Red
QTC50ML-BZ Steady w/built-in buzzer					
QTC50MLF Steady/Flashing	2	DC12V DC24V AC110V-220V		0.28kg 0.28kg 0.38kg	● R-Red ● G-Green
QTC50MLF-BZ Steady/Flashing w/ built-in buzzer					
QTC50ML Steady	3	DC12V DC24V AC110V-220V	CE UL	0.37kg 0.37kg 0.47kg	● R-Red ● A-Amber ● G-Green
QTC50ML-BZ Steady w/built-in buzzer					
QTC50MLF Steady/Flashing	4	DC12V DC24V AC110V-220V		0.45kg 0.45kg 0.55kg	● R-Red ● A-Amber ● G-Green ● B-Blue
QTC50MLF-BZ Steady/Flashing w/ built-in buzzer					
QTC50ML Steady	5	DC12V DC24V AC110V-220V		0.54kg 0.54kg 0.64kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	90mA	70mA	Max.55mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Customization

- DC24V voltage UL listed product
- M12 connector attached type
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)



Wall mount bracket
TWS45



Wall mount bracket
TWA45

Ordering Specifications

QTC50ML	-	3	-	110/220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QTC50ML		1-1 Layer		12-DC12V		● R-Red
QTC50ML-BZ		2-2 Layers		24-DC24V		● A-Amber
QTC50MLF		3-3 Layers		110/220-AC110V-220V		● G-Green
QTC50MLF-BZ		4-4 Layers				● B-Blue
QTC50ML		5-5 Layers				○ W-White
QTC50ML-BZ						
QTC50MLF						
QTC50MLF-BZ						



QTC50L Ø50mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTC50L Steady	1	DC12V	CE UL	0.35kg	● R-Red
QTC50L-BZ Steady w/built-in buzzer		DC24V		0.35kg	
		AC110V-220V		0.45kg	
QTC50LF Steady/Flashing	2	DC12V		0.44kg	● R-Red
QTC50LF-BZ Steady/Flashing w/ built-in buzzer		DC24V		0.44kg	● G-Green
		AC110V-220V		0.54kg	
QTC50L Steady	3	DC12V		0.52kg	● R-Red
QTC50L-BZ Steady w/built-in buzzer		DC24V		0.52kg	● A-Amber
		AC110V-220V		0.62kg	● G-Green
QTC50L Steady	4	DC12V		0.61kg	● R-Red
QTC50L-BZ Steady w/built-in buzzer		DC24V		0.61kg	● A-Amber
		AC110V-220V		0.71kg	● G-Green
QTC50LF Steady/Flashing	5	DC12V		0.69kg	● R-Red
QTC50LF-BZ Steady/Flashing w/ built-in buzzer		DC24V		0.69kg	● G-Green
		AC110V-220V		0.79kg	● B-Blue

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	90mA	70mA	Max.55mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

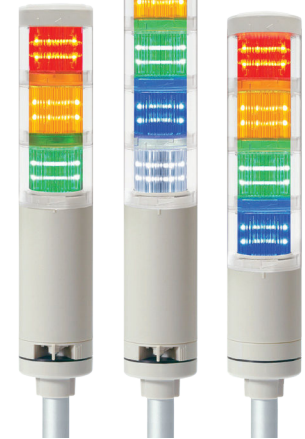
※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

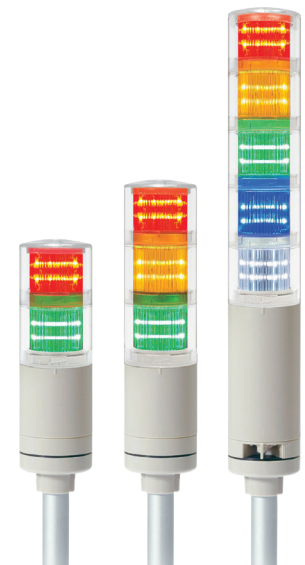
QTC50L	-	3	-	110/220	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTC50L		1-1 Layer		12-DC12V		● R-Red		· None-Standard
QTC50L-BZ		2-2 Layers		24-DC24V		● A-Amber		· Bracket
QTC50LF		3-3 Layers		110/220-AC110V-220V		● G-Green		· LB18 -LW18
QTC50LF-BZ		4-4 Layers				● B-Blue		· QZ18 -SZ18
QTC50L		5-5 Layers				○ W-White		· QL18 -SL18
QTC50L-BZ								
QTC50LF								
QTC50LF-BZ								



When Off



QTC50L Series

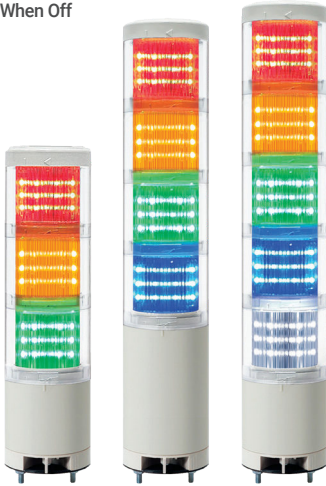


QTC50L Series

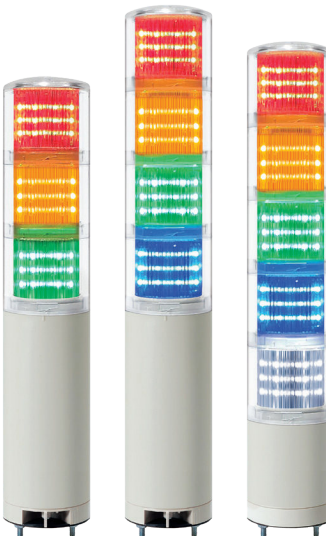
Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- DC24V voltage UL listed product
- M12 connector attached type
- Customized pole length available
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)

QTC60ML / QTC60L



QTC60ML Series



QTCA60ML Series



High-volume buzzer module



QTC60ML Ø60mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTC60ML Steady	1	DC12V	CE UL	0.28kg	● R-Red
QTC60ML-BZ Steady w/built-in buzzer		DC24V		0.28kg	
		AC110V-220V		0.38kg	
QTC60MLF Steady/Flashing	2	DC12V		0.36kg	● R-Red ● G-Green
QTC60MLF-BZ Steady/Flashing w/ built-in buzzer		DC24V		0.36kg	
		AC110V-220V		0.46kg	
QTC60ML Steady	3	DC12V		0.45kg	● R-Red ● A-Amber ● G-Green
QTC60ML-BZ Steady w/built-in buzzer		DC24V		0.45kg	
		AC110V-220V		0.55kg	
QTCA60ML Steady	4	DC12V		0.53kg	● R-Red ● A-Amber ● G-Green ● B-Blue
QTCA60ML-BZ Steady w/built-in buzzer		DC24V		0.53kg	
		AC110V-220V		0.63kg	
QTCA60MLF Steady/Flashing	5	DC12V		0.61kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
QTCA60MLF-BZ Steady/Flashing w/ built-in buzzer		DC24V		0.61kg	
		AC110V-220V		0.71kg	

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	105mA	70mA	Max.60mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Customization

- DC24V voltage UL listed product
- M12 connector attached type
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep) buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)



Wall mount bracket
TWS45



Wall mount bracket
TWA45

Ordering Specifications

QTC60ML	-	3	-	110/220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QTC60ML		1-1 Layer		12-DC12V		● R-Red
QTC60ML-BZ		2-2 Layers		24-DC24V		● A-Amber
QTC60MLF		3-3 Layers		110/220-AC110V-220V		● G-Green
QTC60MLF-BZ		4-4 Layers				● B-Blue
QTCA60ML		5-5 Layers				○ W-White
QTCA60ML-BZ						
QTCA60MLF						
QTCA60MLF-BZ						

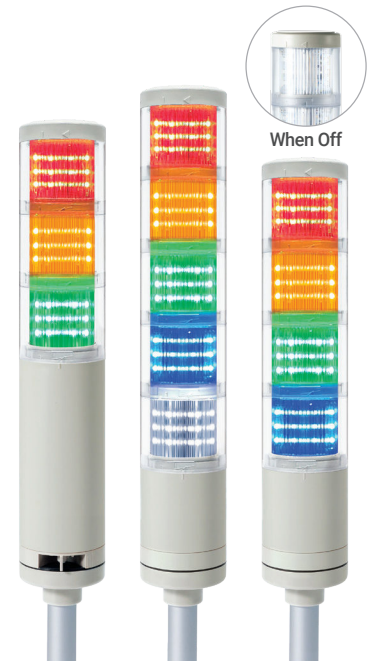


QTC60L Ø60mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTC60L Steady	1	DC12V	CE UL	0.43kg	R-Red
QTC60L Steady w/ built-in buzzer		DC24V		0.43kg	
QTC60L-BZ		AC110V-220V		0.53kg	
QTC60LF Steady/Flashing	2	DC12V		0.52kg	R-Red
QTC60LF Steady/Flashing w/ built-in buzzer		DC24V		0.52kg	G-Green
QTC60LF-BZ	3	DC12V		0.60kg	R-Red
QTC60LF Steady/Flashing		DC24V		0.60kg	A-Amber
QTC60LF Steady/Flashing w/ built-in buzzer		AC110V-220V		0.70kg	G-Green
QTC60L Steady	4	DC12V		0.69kg	R-Red
QTC60L Steady w/ built-in buzzer		DC24V		0.69kg	A-Amber
QTC60L-BZ		AC110V-220V		0.79kg	G-Green
QTC60LF Steady/Flashing	5	DC12V		0.77kg	R-Red
QTC60LF Steady/Flashing w/ built-in buzzer		DC24V		0.77kg	A-Amber
QTC60LF-BZ		AC110V-220V		0.87kg	G-Green

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V



QTC60L Series

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	105mA	70mA	Max.60mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

QTC60L	-	3	-	110/220	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTC60L		1-1 Layer		12-DC12V		R-Red		None-Standard
QTC60L-BZ		2-2 Layers		24-DC24V		A-Amber		Bracket
QTC60LF		3-3 Layers		110/220-AC110V-220V		G-Green		-LB18 -LW18
QTC60LF-BZ		4-4 Layers				B-Blue		-QZ18 -SZ18
QTC60L		5-5 Layers				W-White		-QL18 -SL18
QTC60L-BZ								
QTC60LF								
QTC60LF-BZ								



QTC60L Series

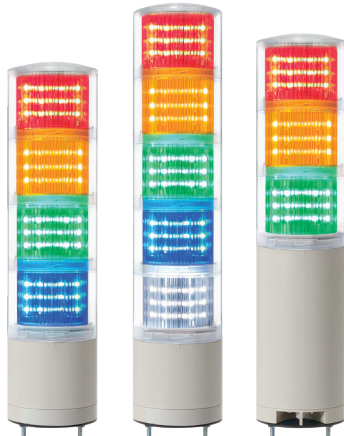
Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- DC24V voltage UL listed product
- M12 connector attached type
- Customized pole length available
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)

QTC70ML / QTC70L



QTC70ML Series



QTCA70ML Series



High-volume buzzer module



QTC70ML Ø70mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTC70ML Steady	1	DC12V DC24V AC110V-220V		0.44kg 0.44kg 0.54kg	● R-Red
QTC70ML-BZ Steady w/built-in buzzer					
QTC70MLF Steady/Flashing	2	DC12V DC24V AC110V-220V		0.58kg 0.58kg 0.68kg	● R-Red ● G-Green
QTC70MLF-BZ Steady/Flashing w/ built-in buzzer					
QTC70ML Steady	3	DC12V DC24V AC110V-220V	CE UL	0.79kg 0.79kg 0.89kg	● R-Red ● A-Amber ● G-Green
QTCA70ML Steady					
QTCA70ML-BZ Steady w/built-in buzzer	4	DC12V DC24V AC110V-220V		0.94kg 0.94kg 1.04kg	● R-Red ● A-Amber ● G-Green ● B-Blue
QTCA70MLF Steady/Flashing					
QTCA70MLF-BZ Steady/Flashing w/ built-in buzzer	5	DC12V DC24V AC110V-220V		1.09kg 1.09kg 1.19kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	105mA	70mA	Max.60mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Customization

- DC24V voltage UL listed product
- M12 connector attached type
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)



Wall mount bracket
TWS80



Wall mount bracket
TWA80

Ordering Specifications

QTC70ML	-	3	-	110/220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QTC70ML		1-1 Layer		12-DC12V		● R-Red
QTC70ML-BZ		2-2 Layers		24-DC24V		● A-Amber
QTC70MLF		3-3 Layers		110/220-AC110V-220V		● G-Green
QTC70MLF-BZ		4-4 Layers				● B-Blue
QTCA70ML		5-5 Layers				○ W-White
QTCA70ML-BZ						
QTCA70MLF						
QTCA70MLF-BZ						

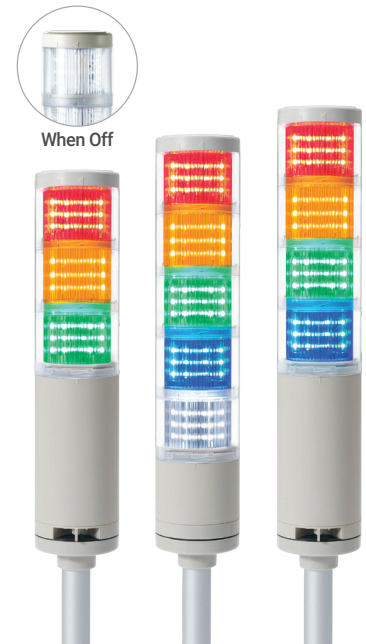


QTC70L Ø70mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTC70L Steady	1	DC12V	CE UL	0.56kg	R-Red
QTC70L-BZ Steady w/built-in buzzer		DC24V		0.56kg	
		AC110V-220V		0.66kg	
QTC70LF Steady/Flashing	2	DC12V		0.68kg	R-Red
QTC70LF-BZ Steady/Flashing w/ built-in buzzer		DC24V		0.68kg	G-Green
		AC110V-220V		0.78kg	
QTC70L Steady	3	DC12V		0.83kg	R-Red
QTC70L-BZ Steady w/built-in buzzer		DC24V		0.83kg	A-Amber
		AC110V-220V		0.92kg	G-Green
QTC70L Steady	4	DC12V		0.98kg	R-Red
QTC70L-BZ Steady w/built-in buzzer		DC24V		0.98kg	A-Amber
		AC110V-220V		1.08kg	G-Green
QTC70LF Steady/Flashing	5	DC12V		1.22kg	R-Red
QTC70LF-BZ Steady/Flashing w/ built-in buzzer		DC24V		1.22kg	A-Amber
		AC110V-220V		1.31kg	G-Green
					B-Blue

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V



QTC70L Series

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	105mA	70mA	Max.60mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

QTC70L	-	3	-	110/220	-	RAG	-	LW24
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTC70L		1-1 Layer		12-DC12V		R-Red		· None-Standard
QTC70L-BZ		2-2 Layers		24-DC24V		A-Amber		· Bracket
QTC70LF		3-3 Layers		110/220-AC110V-220V		G-Green		· LB24-LW24
QTC70LF-BZ		4-4 Layers				B-Blue		· QZ24-SZ24
QTC70L		5-5 Layers				W-White		· QL24-SL24
QTC70L-BZ								
QTC70LF								
QTC70LF-BZ								



QTC70L Series

Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- DC24V voltage UL listed product
- M12 connector attached type
- Customized pole length available
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)

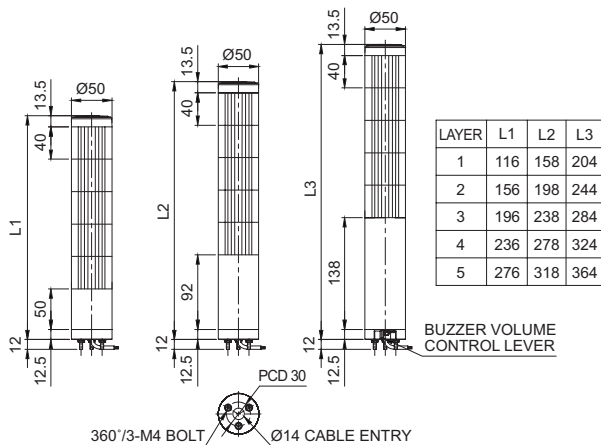
Technical Diagram

Units : mm

•QTC50ML-DC
•QTC50MLF-DC
•QTC50ML-BZ-DC

•QTC50ML-AC
•QTC50MLF-BZ-DC

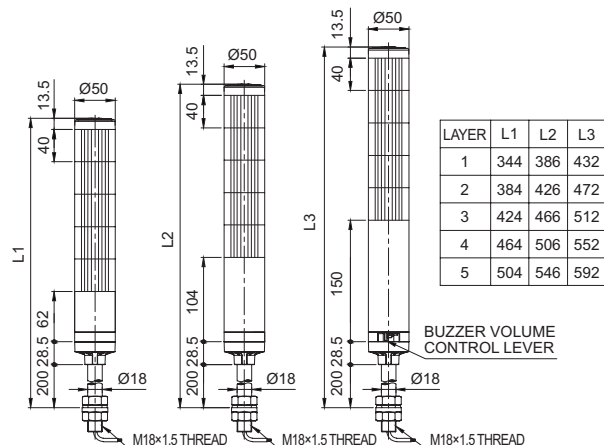
•QTC50MLF-AC
•QTC50ML-BZ-AC
•QTC50MLF-BZ-AC



•QTC50L-DC
•QTC50LF-DC
•QTC50L-BZ-DC

•QTC50L-AC
•QTC50LF-BZ-DC

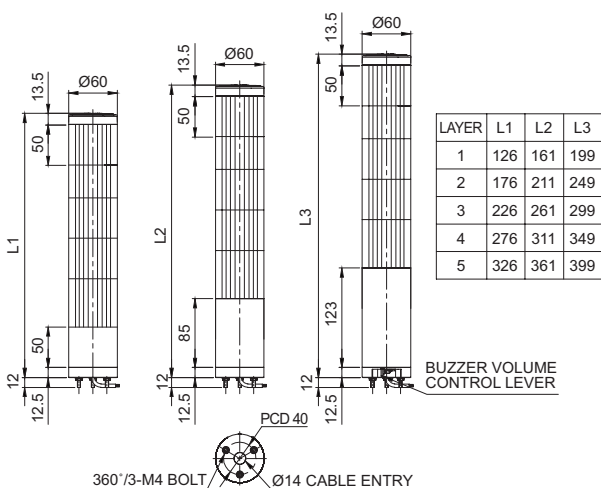
•QTC50LF-AC
•QTC50L-BZ-AC
•QTC50LF-BZ-AC



•QTC60ML-DC
•QTC60MLF-DC
•QTC60ML-BZ-DC

•QTC60ML-AC
•QTC60MLF-BZ-DC

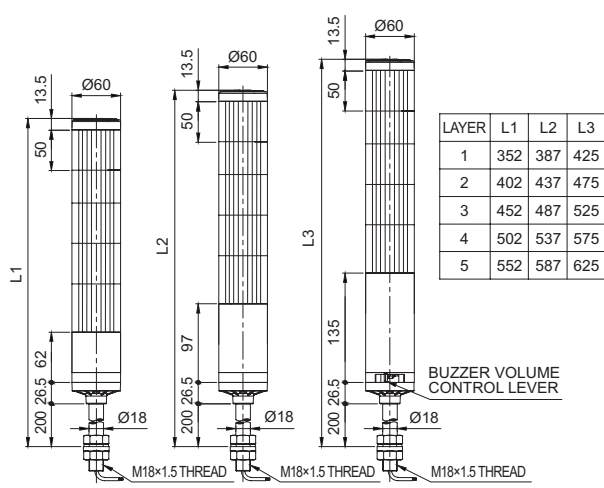
•QTC60MLF-AC
•QTC60ML-BZ-AC
•QTC60MLF-BZ-AC



•QTC60L-DC
•QTC60LF-DC
•QTC60L-BZ-DC

•QTC60L-AC
•QTC60LF-BZ-DC

•QTC60LF-AC
•QTC60L-BZ-AC
•QTC60LF-BZ-AC

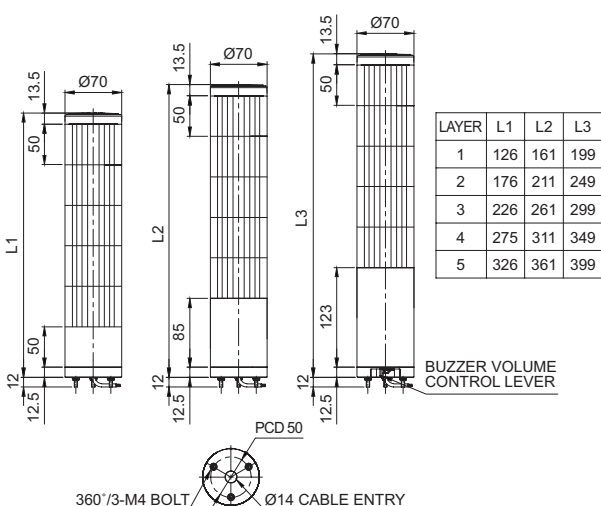


•QTC70ML-DC
•QTC70MLF-DC
•QTC70ML-BZ-DC

•QTC70ML-AC
•QTC70MLF-AC

•QTC70MLF-BZ-AC

•QTC70ML-BZ-AC
•QTC70MLF-BZ-DC

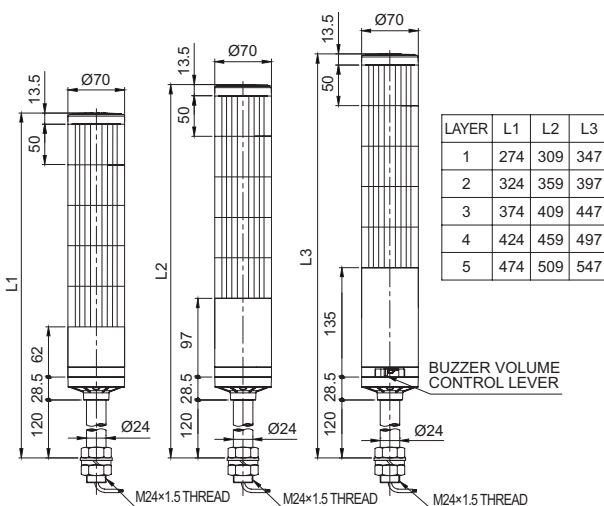


•QTC70L-DC
•QTC70LF-DC
•QTC70L-BZ-DC

•QTC70L-AC
•QTC70LF-AC

•QTC70LF-BZ-AC

•QTC70L-BZ-AC
•QTC70LF-BZ-DC



PRODUCT SPECIFICATION

QTR Series

Materials Lens-PC, Housing-ABS, Pole-Al

Ambient operating temperature -30°C to +50°C

Volume Max.85dB at 1m

Protection rating Standard type-IP65, Built-in buzzer type-IP54

Flashing rate 60-80/min

Compliant with RoHS directive

- Modular LED steady/flashing signal tower lights
- Soft and comfortable signal light emitted through the translucent milky lens
- When the product is turned off the milky color filter provides comfortable viewing at close proximity for the operator
- Can select from size selections of Ø50mm, Ø60mm, and Ø70mm to fit your sophisticated application needs
- The addition of modules and change in color arrangement can be achieved without the use of tools by using the Lock-type structure
- QTRA type offers a nifty integrated lens and cover for a simple aesthetically pleasing product
- A variety of Mounting brackets selections for the pole mount type to fit your location and mounting needs
- Standard model and built-in buzzer model can be used by selecting the specifications suitable for the operating environment.
- Available in customized 2 sound buzzer type and high volume(100dB) buzzer type
- Wired type and M12 connector type allow for a customized model that M12 connector can be attached at the end of wires.
- Transistors can be connected and can be operated on PLC directly



Each modular color lens can be added without additional tools



QTR model uses a special contact structure for stable operation, the lens modules lock into place by rotating the modular structures together. This allows for easy changes to the color arrangement without any tools. Additional modules can be added.



1 High volume buzzer (100dB) option can be fitted to the top of the product. (Customization)

High volume 100dB volume buzzer module fastened to the top of the product provides 360 degree buzzer signal output which cannot be achieved with the single directional buzzer.(Buzzer volume cannot be adjusted)

2 Integrated cover and lens model(QTRA50 / QTRA60 / QTRA70)

QTRA50 / QTRA60 / QTRA70 The sleek lens cover model is made of one piece for a simple unified look.

3 QTR Series special lens

QTR Series provides soft and comfortable signal light emitted through the translucent milky lens.

4 Buzzer volume is adjusted via the volume control lever

QTR type volume can be adjusted for each specific working condition with the equipped buzzer volume control lever at the bottom of the product.(-BZ type)

5 M12 connector attached type

M12 connector is standard(Female M12 connector is not provided).

6 Can select from a variety of Mounting brackets option to fit your application needs and build environment

There are a variety of Mounting bracket options available depending on cost and installation requirements.

QTR50ML / QTR50L



QTR50ML Series



QTRA50ML Series



High-volume buzzer module

QTR50ML Ø50mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTR50ML Steady	1	DC12V DC24V AC110V-220V	CE UL	0.19kg 0.19kg 0.29kg	● R-Red
QTR50ML-BZ Steady w/built-in buzzer					
QTR50MLF Steady/Flashing	2	DC12V DC24V AC110V-220V		0.27kg 0.27kg 0.37kg	● R-Red ● G-Green
QTR50MLF-BZ Steady/Flashing w/ built-in buzzer	3	DC12V DC24V AC110V-220V		0.36kg 0.36kg 0.46kg	● R-Red ● A-Amber ● G-Green
QTRA50ML Steady	4	DC12V DC24V AC110V-220V		0.44kg 0.44kg 0.54kg	● R-Red ● A-Amber ● G-Green ● B-Blue
QTRA50ML-BZ Steady w/built-in buzzer					
QTRA50MLF Steady/Flashing	5	DC12V DC24V AC110V-220V		0.53kg 0.53kg 0.63kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
QTRA50MLF-BZ Steady/Flashing w/ built-in buzzer					

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	90mA	70mA	Max.55mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Customization

- DC24V voltage UL listed product
- M12 connector attached type
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)



Wall mount bracket
TWS45



Wall mount bracket
TWA45

Ordering Specifications

QTC70ML	-	3	-	110/220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QTC70ML		1-1 Layer		12-DC12V		● R-Red
QTC70ML-BZ		2-2 Layers		24-DC24V		● A-Amber
QTC70MLF		3-3 Layers		110/220-AC110V-220V		● G-Green
QTC70MLF-BZ		4-4 Layers				● B-Blue
QTCA70ML		5-5 Layers				○ W-White
QTCA70ML-BZ						
QTCA70MLF						
QTCA70MLF-BZ						



QTR50L Ø50mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTR50L Steady	1	DC12V	CE UL	0.34kg	● R-Red
QTR50L-BZ		DC24V		0.34kg	
Steady w/built-in buzzer		AC110V-220V		0.44kg	
QTR50LF Steady/Flashing	2	DC12V		0.43kg	● R-Red
QTR50LF-BZ		DC24V		0.43kg	● G-Green
Steady/Flashing w/ built-in buzzer		AC110V-220V		0.53kg	
QTRA50L Steady	3	DC12V		0.51kg	● R-Red
QTRA50L-BZ		DC24V		0.51kg	● A-Amber
Steady w/built-in buzzer		AC110V-220V		0.61kg	● G-Green
QTRA50LF Steady/Flashing	4	DC12V		0.60kg	● R-Red
QTRA50LF-BZ		DC24V		0.60kg	● A-Amber
Steady/Flashing w/ built-in buzzer		AC110V-220V		0.70kg	● G-Green
QTRA50LF Steady/Flashing	5	DC12V		0.68kg	● R-Red
QTRA50LF-BZ		DC24V		0.68kg	● A-Amber
Steady/Flashing w/ built-in buzzer		AC110V-220V		0.78kg	● G-Green ● B-Blue ○ W-White

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V



When Off



QTR50L Series



QTRA50L Series

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	90mA	70mA	Max.55mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

QTR50L	-	3	-	110/220	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTR50L		1-1 Layer		12-DC12V		● R-Red		· None-
QTR50L-BZ		2-2 Layers		24-DC24V		● A-Amber		Standard
QTR50LF		3-3 Layers		110/220-AC110V-220V		● G-Green		· Bracket
QTR50LF-BZ		4-4 Layers				● B-Blue		-LB18 -LW18
QTRA50L		5-5 Layers				○ W-White		-QZ18 -SZ18
QTRA50L-BZ								-QL18 -SL18
QTRA50LF								
QTRA50LF-BZ								

Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- DC24V voltage UL listed product
- M12 connector attached type
- Customized pole length available
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)

QTR60ML / QTR60L



QTR60ML Series



QTRA60ML Series



High-volume buzzer module



QTR60ML Ø60mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTR60ML Steady	1	DC12V	CE UL	0.26kg	● R-Red
QTR60ML-BZ Steady w/built-in buzzer		DC24V AC110V-220V		0.26kg 0.36kg	
QTR60MLF Steady/Flashing	2	DC12V		0.34kg	● R-Red ● G-Green
QTR60MLF-BZ Steady/Flashing w/ built-in buzzer		DC24V AC110V-220V		0.34kg 0.44kg	
QTRA60ML Steady	3	DC12V		0.43kg	● R-Red ● A-Amber ● G-Green
QTRA60ML-BZ Steady w/built-in buzzer		DC24V AC110V-220V		0.43kg 0.53kg	
QTRA60MLF Steady/Flashing	4	DC12V		0.51kg	● R-Red ● A-Amber ● G-Green ● B-Blue
QTRA60MLF-BZ Steady/Flashing w/ built-in buzzer		DC24V AC110V-220V		0.51kg 0.61kg	
QTRA60MLF-BZ Steady/Flashing w/ built-in buzzer	5	DC12V		0.59kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
		DC24V AC110V-220V		0.59kg 0.69kg	

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	105mA	70mA	Max.60mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Customization

- DC24V voltage UL listed product
- M12 connector attached type
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)



Wall mount bracket
TWS45



Wall mount bracket
TWA45

Ordering Specifications

QTR60ML	-	3	-	110/220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QTR60ML		1-1 Layer		12-DC12V		● R-Red
QTR60ML-BZ		2-2 Layers		24-DC24V		● A-Amber
QTR60MLF		3-3 Layers		110/220-AC110V-220V		● G-Green
QTR60MLF-BZ		4-4 Layers				● B-Blue
QTRA60ML		5-5 Layers				○ W-White
QTRA60ML-BZ						
QTRA60MLF						
QTRA60MLF-BZ						



QTR60L Ø60mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTR60L Steady	1	DC12V	CE UL	0.41kg	● R-Red
QTR60L-BZ		DC24V		0.41kg	
Steady w/built-in buzzer		AC110V-220V		0.51kg	
QTR60LF Steady/Flashing	2	DC12V		0.50kg	● R-Red
QTR60LF-BZ		DC24V		0.50kg	● G-Green
Steady/Flashing w/ built-in buzzer		AC110V-220V		0.60kg	
QTRA60L Steady	3	DC12V		0.58kg	● R-Red
QTRA60L-BZ		DC24V		0.58kg	● A-Amber
Steady w/built-in buzzer		AC110V-220V		0.68kg	● G-Green
QTRA60LF Steady/Flashing	4	DC12V		0.67kg	● R-Red
QTRA60LF-BZ		DC24V		0.67kg	● A-Amber
Steady/Flashing w/ built-in buzzer		AC110V-220V		0.77kg	● G-Green
QTRA60LF Steady/Flashing	5	DC12V		0.75kg	● R-Red
QTRA60LF-BZ		DC24V		0.75kg	● G-Green
Steady/Flashing w/ built-in buzzer		AC110V-220V		0.85kg	● B-Blue ○ W-White

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V



QTR60L Series

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	105mA	70mA	Max.60mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

QTR60L	-	3	-	110/220	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTR60L		1-1 Layer		12-DC12V		● R-Red		· None-Standard
QTR60L-BZ		2-2 Layers		24-DC24V		● A-Amber		· Bracket
QTR60LF		3-3 Layers		110/220-AC110V-220V		● G-Green		-LB18 -LW18
QTR60LF-BZ		4-4 Layers				● B-Blue		-QZ18 -SZ18
QTRA60L		5-5 Layers				○ W-White		-QL18 -SL18
QTRA60L-BZ								
QTRA60LF								
QTRA60LF-BZ								



QTRA60L Series

Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- DC24V voltage UL listed product
- M12 connector attached type
- Customized pole length available
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)

QTR70ML / QTR70L



QTR70ML Series



QTRA70ML Series



High-volume buzzer module



QTR70ML Ø70mm Direct mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTR70ML Steady	1	DC12V		0.42kg	● R-Red
QTR70ML-BZ Steady w/built-in buzzer		DC24V		0.42kg	
		AC110V-220V		0.52kg	
QTR70MLF Steady/Flashing	2	DC12V		0.56kg	● R-Red ● G-Green
QTR70MLF-BZ Steady/Flashing w/ built-in buzzer		DC24V		0.56kg	
	3	DC12V	CE UL	0.77kg	● R-Red ● A-Amber ● G-Green
QTRA70ML Steady		DC24V		0.77kg	
QTRA70ML-BZ Steady w/built-in buzzer		AC110V-220V		0.87kg	
QTRA70MLF Steady/Flashing	4	DC12V		0.92kg	● R-Red ● A-Amber ● G-Green ● B-Blue
QTRA70MLF-BZ Steady/Flashing w/ built-in buzzer		DC24V		0.92kg	
	5	DC12V		1.07kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
		DC24V		1.07kg	
		AC110V-220V		1.17kg	

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	105mA	70mA	Max.60mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Customization

- DC24V voltage UL listed product
- M12 connector attached type
- 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)



Wall mount bracket
TWS80



Wall mount bracket
TWA80

Ordering Specifications

QTR70ML	-	3	-	110/220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QTR70ML		1-1 Layer		12-DC12V		● R-Red
QTR70ML-BZ		2-2 Layers		24-DC24V		● A-Amber
QTR70MLF		3-3 Layers		110/220-AC110V-220V		● G-Green
QTR70MLF-BZ		4-4 Layers				● B-Blue
QTRA70ML		5-5 Layers				○ W-White
QTRA70ML-BZ						
QTRA70MLF						
QTRA70MLF-BZ						



QTR70L Ø70mm Pole mount, LED Steady/Flashing

Model number	Layers	Voltage	Certificates	Weight	Color
QTR70L Steady	1	DC12V	CE UL	0.54kg	● R-Red
QTR70L-BZ Steady w/built-in buzzer		DC24V		0.54kg	
		AC110V-220V		0.64kg	
QTR70LF Steady/Flashing	2	DC12V		0.66kg	● R-Red
QTR70LF-BZ Steady/Flashing w/ built-in buzzer		DC24V		0.66kg	● G-Green
		AC110V-220V		0.76kg	
QTRA70L Steady	3	DC12V		0.81kg	● R-Red
QTRA70L-BZ Steady w/built-in buzzer		DC24V		0.81kg	● A-Amber
		AC110V-220V		0.90kg	● G-Green
QTRA70LF Steady/Flashing	4	DC12V		0.96kg	● R-Red
QTRA70LF-BZ Steady/Flashing w/ built-in buzzer		DC24V		0.96kg	● A-Amber
		AC110V-220V		1.06kg	● G-Green
	5	DC12V		1.20kg	● B-Blue
		DC24V		1.20kg	● W-White
		AC110V-220V		1.29kg	

※ AC type model has a free-voltage range of 100V-240V.

※ UL Listed: DC24V



Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	105mA	70mA	Max.60mA
Buzzer current	40mA	75mA	Max.55mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions



Ordering Specifications

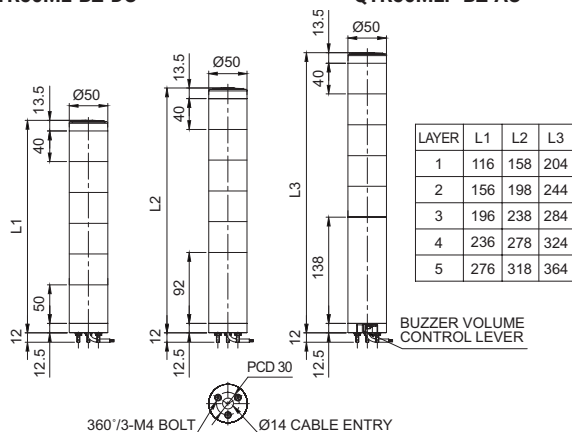
QTR70L	-	3	-	110/220	-	RAG	-	LW24
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTR70L		1-1 Layer		12-DC12V		● R-Red		· None-Standard
QTR70L-BZ		2-2 Layers		24-DC24V		● A-Amber		· Bracket
QTR70LF		3-3 Layers		110/220-AC110V-220V		● G-Green		-LB24 -LW24
QTR70LF-BZ		4-4 Layers				● B-Blue		-QZ24 -SZ24
QTRA70L		5-5 Layers				○ W-White		-QL24 -SL24
QTRA70L-BZ								
QTRA70LF								
QTRA70LF-BZ								

Customization

- 2 buzzer sound types : Both prolonged(beep, beep) and staccato(beep, beep, beep) buzzer output available
- DC24V voltage UL listed product
- M12 connector attached type
- Customized pole length available
- Top high-volume buzzer module mounted (lens limited to 4 stages or less)

Units : mm

·QTR50ML-DC ·QTR50ML-AC ·QTR50MLF-AC
 ·QTR50MLF-DC ·QTR50MLF-BZ-DC ·QTR50ML-BZ-AC
 ·QTR50ML-BZ-DC ·QTR50MLF-BZ-AC



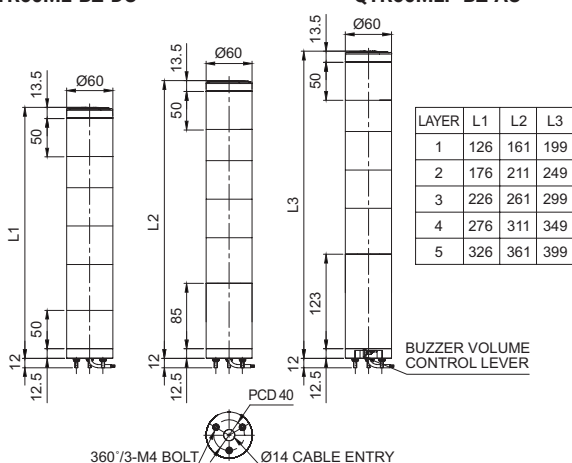
LAYER	L1	L2	L3
1	116	158	204
2	156	198	244
3	196	238	284
4	236	278	324
5	276	318	364

BUZZER VOLUME
CONTROL LEVER

360°/3-M4 BOLT Ø14 CABLE ENTRY

Ø14 CABLE ENTRY

·QTR60ML-DC ·QTR60ML-AC ·QTR60MLF-AC
·QTR60MLF-DC ·QTR60MLF-BZ-DC ·QTR60ML-BZ-AC
·QTR60ML-BZ-DC ·QTR60MLF-BZ-AC



LAYER	L1	L2	L3
1	126	161	199
2	176	211	249
3	226	261	299
4	276	311	349
5	326	361	399

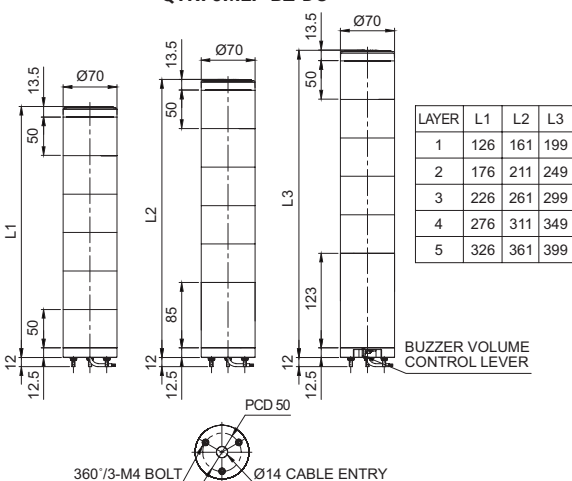
BUZZER VOLUME
CONTROL LEVER

360°/3-M4 BOLT / Ø14 CABLE ENTRY

A diagram of a circular structure, possibly a cross-section of a wheel or a mechanical component. It features a central hub with several spokes radiating outwards to a circular rim. There are four dark, circular elements positioned at the ends of the spokes, likely representing bolts or fasteners. The diagram is labeled with 'a' and 'b' at the bottom, indicating specific points or components.

Ø14 CABLE ENTRY

·QTR70ML-DC	·QTR70ML-AC	·QTR70MLF-BZ-AC	·QTR70L-DC	·QTR70L-AC	·QTR70LF-BZ-AC
·QTR70MLF-DC	·QTR70MLF-AC		·QTR70LF-DC	·QTR70LF-AC	
·QTR70ML-BZ-DC	·QTR70ML-BZ-AC		·QTR70L-BZ-DC	·QTR70L-BZ-AC	
	·QTR70MLF-BZ-DC			·QTR70LF-BZ-DC	



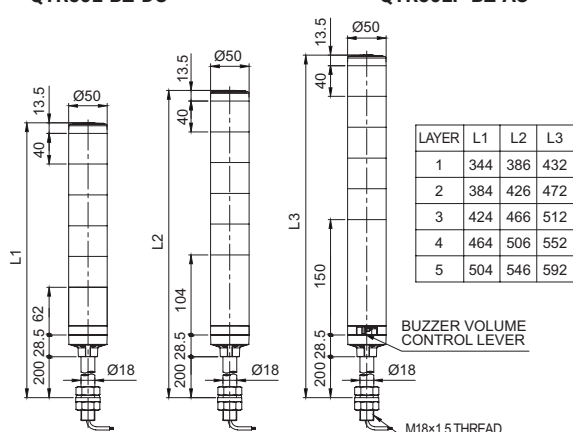
LAYER	L1	L2	L3
1	126	161	199
2	176	211	249
3	226	261	299
4	276	311	349
5	326	361	399

BUZZER VOLUME
CONTROL LEVER

360°/3-M4 BOLT Ø14 CABLE ENTRY

Ø14 CABLE ENTRY

- QTR50L-DC
- QTR50L-AC
- QTR50LF-AC
- QTR50LF-DC
- QTR50LF-BZ-DC
- QTR50L-BZ-AC
- QTR50L-BZ-DC
- QTR50LF-BZ-AC

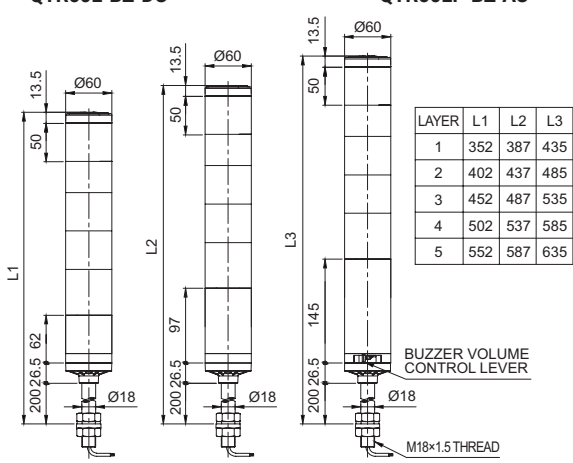


LAYER	L1	L2	L3
1	344	386	432
2	384	426	472
3	424	466	512
4	464	506	552
5	504	546	592

BUZZER VOLUME
CONTROL LEVER

M18x1.5 THREAD

- QTR60L-DC
- QTR60L-AC
- QTR60LF-AC
- QTR60LF-DC
- QTR60LF-BZ-DC
- QTR60L-BZ-AC
- QTR60L-BZ-DC
- QTR60LF-BZ-AC

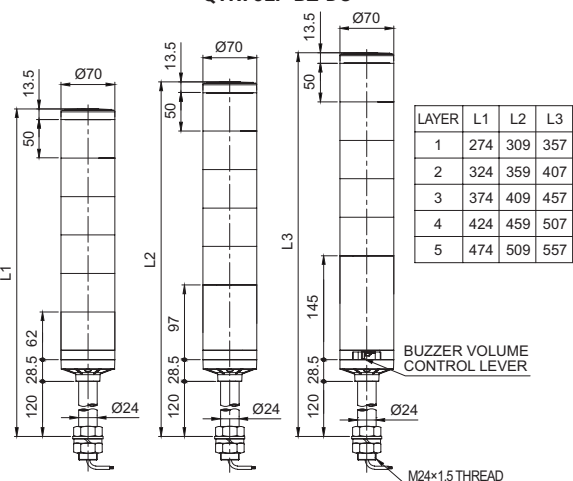


LAYER	L1	L2	L3
1	352	387	435
2	402	437	485
3	452	487	535
4	502	537	585
5	552	587	635

BUZZER VOLUME
CONTROL LEVER

M18x1.5 THREAD

·QTR70L-DC ·QTR70L-AC ·QTR70LF-BZ-AC
·QTR70LF-DC ·QTR70LF-AC
·QTR70L-BZ-DC ·QTR70L-BZ-AC
 ·QTR70LF-BZ-DC



LAYER	L1	L2	L3
1	274	309	357
2	324	359	407
3	374	409	457
4	424	459	507
5	474	509	557

BUZZER VOLUME
CONTROL LEVER

M24x1.5 THREAD

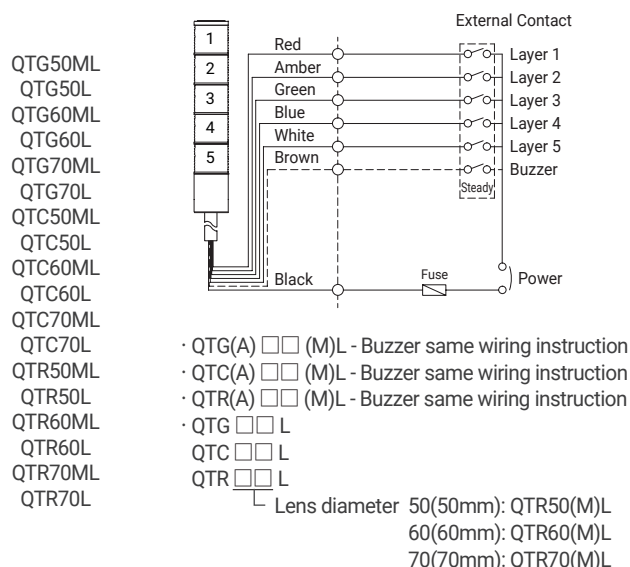
QTG / QTC / QTR Series

Wiring Instructions(using External Contact)

· In case of wiring with External Contacts, refer to the wiring diagrams below according to your product's type and voltage setting.

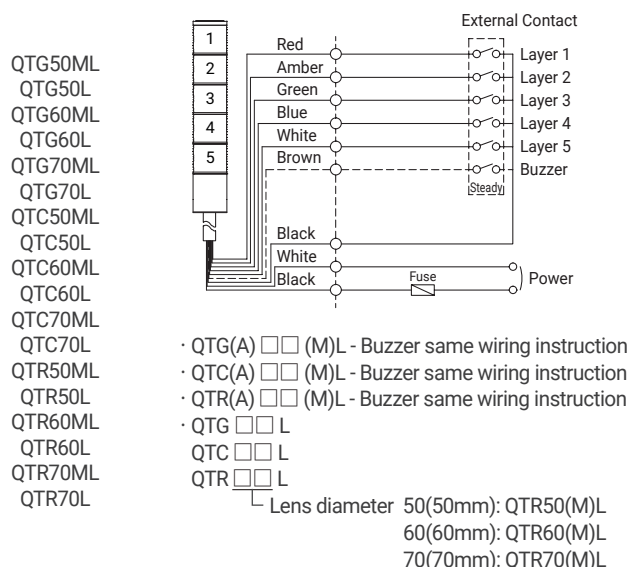
Wiring Instructions

DC Steady

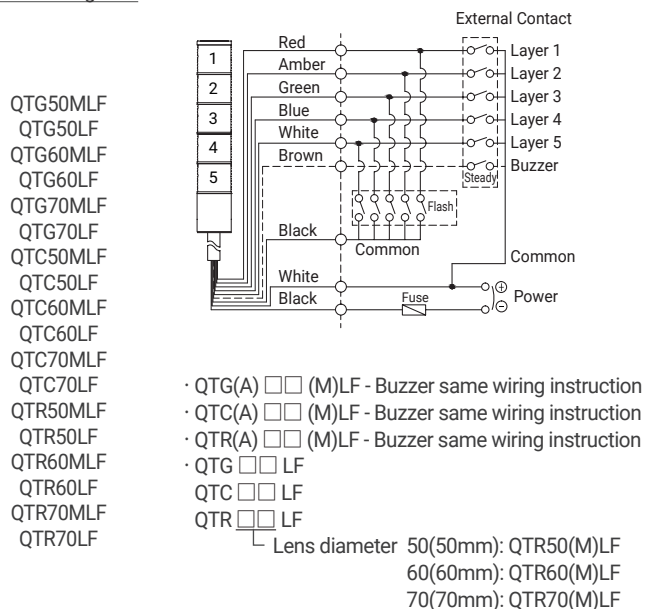


Wiring Instructions

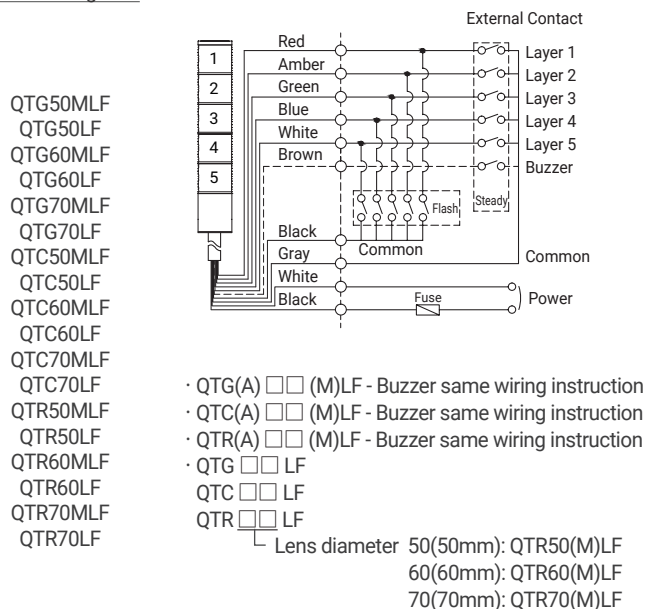
AC Steady



DC Steady/ Flashing



AC Steady/ Flashing



- DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm

Wiring Instructions(using transistor)

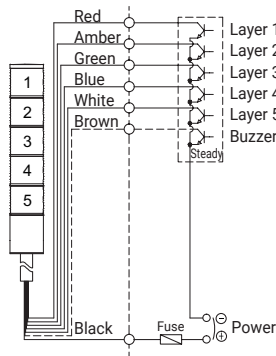
· In case of wiring with transistors, please select the proper transistor type : either NPN or PNP based on the source voltage setting.

Wiring Instructions

DC Steady

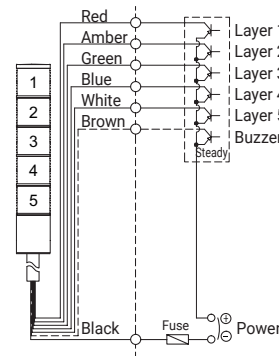
QTG50ML
QTG50L
QTG60ML
QTG60L
QTG70ML
QTG70L
QTC50ML
QTC50L
QTC60ML
QTC60L
QTC70ML
QTC70L
QTR50ML
QTR50L
QTR60ML
QTR60L
QTR70ML
QTR70L

External Transistor



- QTG(A) □□ (M)L - Buzzer same wiring instruction
- QTC(A) □□ (M)L - Buzzer same wiring instruction
- QTR(A) □□ (M)L - Buzzer same wiring instruction
- QTG □□ L
- QTC □□ L
- QTR □□ L
- └ Lens diameter 50(50mm): QTR50(M)L
60(60mm): QTR60(M)L
70(70mm): QTR70(M)L

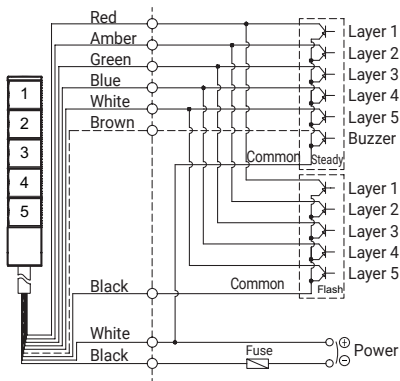
External Transistor



DC Steady/ Flashing

QTG50MLF
QTG50LF
QTG60MLF
QTG60LF
QTG70MLF
QTG70LF
QTC50MLF
QTC50LF
QTC60MLF
QTC60LF
QTC70MLF
QTC70LF
QTR50MLF
QTR50LF
QTR60MLF
QTR60LF
QTR70MLF
QTR70LF

External Transistor

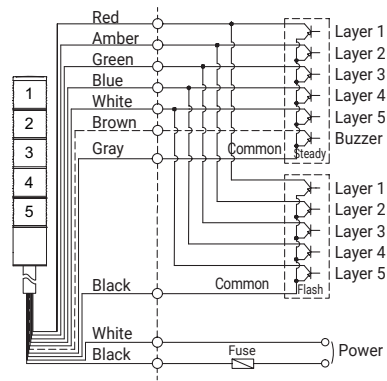


- QTG(A) □□ (M)LF - Buzzer same wiring instruction
- QTC(A) □□ (M)LF - Buzzer same wiring instruction
- QTR(A) □□ (M)LF - Buzzer same wiring instruction
- QTG □□ LF
- QTC □□ LF
- QTR □□ LF
- └ Lens diameter 50(50mm): QTR50(M)LF
60(60mm): QTR60(M)LF
70(70mm): QTR70(M)LF

AC Steady/ Flashing

QTG50MLF
QTG50LF
QTG60MLF
QTG60LF
QTG70MLF
QTG70LF
QTC50MLF
QTC50LF
QTC60MLF
QTC60LF
QTC70MLF
QTC70LF
QTR50MLF
QTR50LF
QTR60MLF
QTR60LF
QTR70MLF
QTR70LF

External Transistor



- QTG(A) □□ (M)LF - Buzzer same wiring instruction
- QTC(A) □□ (M)LF - Buzzer same wiring instruction
- QTR(A) □□ (M)LF - Buzzer same wiring instruction
- QTG □□ LF
- QTC □□ LF
- QTR □□ LF
- └ Lens diameter 50(50mm): QTR50(M)LF
60(60mm): QTR60(M)LF
70(70mm): QTR70(M)LF

· DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm

· AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm

MTG / MTC / MTR Series

PRODUCT SPECIFICATION

MTG / MTC / MTR Series

Materials Lens-PC, Housing-ABS, Pole-Al

Ambient operating temperature -30°C to +50°C

Sound volume Standard buzzer Max.90dB at 1m
High-volume buzzer Max.100dB at 1m
Waterproof buzzer Max.85dB at 1m

Protection rating

Signal Beacon Terminal type,
Waterproof buzzer module type-IP65
High-volume buzzer module type-Non-Waterproof

Certificates CE, UL

※ UL listed silver housing model is optionally provided

Flashing rate 60-80 flashes/min

Compliant with RoHS directive

- Modular LED steady/flashing type signal tower lights
- 3 unique visual effects are possible as different
MTG: Excellent visibility from a distance with the use of a special color diffusing lens
MTC: Added a separate color filter lens inside the outer lens to help provide a clear signal
MTR: Soft and comfortable signal light emitted through the translucent milky lens
- Can select from size selections of Ø50mm, Ø60mm, and Ø70mm to fit your sophisticated application needs
- Steady/Flashing mode can be selected by using dip switch inside of the LED module
- Push buttons on the terminal help you to realize easy wiring
- Modularized high buzzer module emits intensive buzzer sound
- Sealed design with waterproof buzzer
- MTGA / MTCA / MTRA type offers a nifty integrated lens and cover for a simple aesthetically pleasing product



Each modular color lens can be added without additional tools



MTG / MTC / MTR model uses a special contact structure for stable operation, the lens modules lock into place by rotating the modular structures together. This allows for easy changes to the color arrangement without any tools. Additional modules can be added.



- 1 Terminal type base module**
Terminal type base module can wire power lines and signaling lines separately depending on the installation environment.
- 2 Buzzer module**
High-volume buzzer module: The high-volume buzzer module with a high-output buzzer can deliver a stronger signal than a standard buzzer module(Buzzer volume: Max. 100dB at 1m).
Waterproof buzzer module: The waterproof buzzer module with a fully enclosed structure can emit a stable buzzer sound (IP Rating: IP65, buzzer volume: Max. 85dB at 1m).
- 3 Integrated cover and lens model**
MTGA / MTCA / MTRA Series the sleek lens cover model is made of one piece for a simple unified look.
- 4 Black and silver applied products (customized type)**
Black or silver products for the body, cover, and buzzer module are customized product.
- 5 M12 connector attached type (customization)**
Built-in M12 connector realizes easy installations and disconnections.
- 6 Can select from a variety of Mounting brackets option to fit your application needs and build environment**
There are a variety of Mounting brackets options available depending on cost and installation requirements.

Modular LED signal tower light with built-in terminal

MTG / MTC / MTR Series

A new concept model that allows users to change and combine individual lens colors without a tool

Cover integrated LED module



It is possible to assemble a product with a different atmosphere from existing products by using a cover lens integrated module in which the cover and the LED module are integrated.

- MGA LED module : Excellent visibility even from a distance by adopting a colored diffuser lens that is integrated with the cover
- MCA LED module : Clear and beautiful signal light by embedding a filter lens in a transparent groove that is integrated with the cover
- MRA LED module : Soft and cozy signal light is emitted by using a milky translucent lens that is integrated with the cover.

Module name	Layout	Product feature
LED module		· The LED module adopts a special colored diffused light for excellent visibility. · Customer can select LED function by using the built-in steady/flashing mode switch. · Customer can disassemble and assemble according to the purpose. ※ MTC/MTR module is photographed in a LED steady mode to help customer's understanding.
Standard buzzer module		· The buzzer volume level is up to 90dB. · Customer can freely disassemble and assemble according to customer's demand.
High-volume buzzer module		· The buzzer volume level is up to 100dB. · Intensive buzzer sound is possible by adopting a high-volume buzzer. · Customer can freely disassemble and assemble according to customer's demand.
Waterproof buzzer module		· By adopting a completely sealed structure, MTG realizes stable buzzer sound. · Better protection rating which is IP65 in comparison with a built-in buzzer unit. · Customer can freely disassemble and assemble according to customer's demand.

Features when MC / MR module modes are steady/off conditions

- MC/MR module does not display the color of the light source on the module surface when it is turned off (see photo below).



When MC module is off



When MR module is off



When MC module is off



When MR module is off

Can select from a variety of Mounting bracket options to fit your application needs

- You can chose from 9 different kinds of Mounting bracket options.
- The bracket materials vary from steel, aluminum, and polycarbonate
- Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions



Modular LED signal tower light with built-in terminal

MTG / MTC / MTR Series

A model with excellent versatility through the application of various mounting options

Terminal type base module



- Constructing a terminal block to release locking on the terminal block type base module enables wiring without using a special tool.
- User directly selects the standard power cable length, color, specifications, and so on and customized wiring is possible.
- Easy wiring by releasing locking with a button.

Module name	Layout	Product feature
Self stand base module		· It is used when fixing the product directly to the mounting location without using any other type of Mounting bracket.
Pole type base module		· After assembling the pole on the bottom plate of the product, use a separate Mounting bracket to fix the product. · The height of the product can be freely adjusted by changing the pole height. · 9 types of various Mounting brackets can be selected and used according to the installation environment
M12 connector type base module		· It is used when fixing the product directly to the mounting location without using any other type of Mounting bracket. · Connect and drive the product using the M12 connector on the bottom plate.

How to assemble modules

- Consumers can purchase the necessary modules and assemble them themselves.
- Detailed specifications and features of the module are introduced in the catalog.
- Module assembly information is included in the assembly guide page.



Pre-assemble unit

- Assemble the functions requested by the consumer and supply it as a finished product.
- The assembly specifications of various types are introduced in the catalog.

How to assemble modules



- ① Assemble so that the I-shaped projections of the module to be assembled coincide with each other.



- ② Lock the upper module by rotating the upper module clockwise so that the triangular protrusion aligns with the I-shaped protrusion of the lower module.

How to dismantle modules



- ① Make sure that the I-shaped projection of the upper module is aligned with the I-shaped projection of the lower module. Rotate the upper module counterclockwise.



- ② Separate the upper module to the upper side.

Modular LED signal tower light with built-in terminal

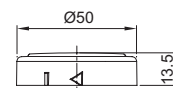
MTG50 / MTC50 / MTR50 Series

Top module

· Cover

(Units : mm)

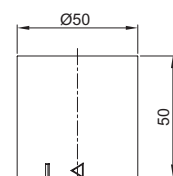
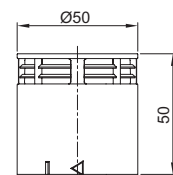
Layout	Parts Name	Model No	Color	Weight	Common Specifications
	MTG50 Cover	MG50-CV	Ivory	0.01kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø50 X 14
	MTG50 Cover	MG50-CV-SV	Silver	0.01kg	
	MTG50 Cover	MG50-CV-BK	Black	0.01kg	



· Buzzer module

(Units : mm)

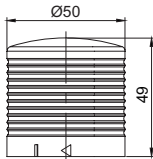
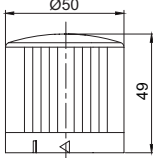
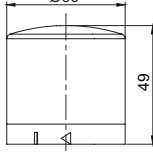
Layout	Parts Name	Model No	Color	Specification		Volume(dB)	Weight	Common Specifications
				Voltage	Current			
	MTG50-Standard buzzer module	MG50-BZ-24	Ivory	DC24V	90mA	Max.90dB	0.05kg	· Material: ABS · Protection ratings with assemble : Non-Waterproof · Product size: Ø50 X 50
	MTG50-High-volume buzzer module	MG50-HBZ-24	Ivory	DC24V	90mA	Max.100dB	0.05kg	
	MTG50-Standard buzzer module	MG50-BZ-24-SV	Silver	DC24V	90mA	Max.90dB	0.05kg	
	MTG50-High-volume buzzer module	MG50-HBZ-24-SV	Silver	DC24V	90mA	Max.100dB	0.05kg	
	MTG50-Standard buzzer module	MG50-BZ-24-BK	Black	DC24V	90mA	Max.90dB	0.05kg	
	MTG50-High-volume buzzer module	MG50-HBZ-24-BK	Black	DC24V	90mA	Max.100dB	0.05kg	
	MTG50-Waterproof buzzer module	MG50-WBZ-24	Ivory	DC24V	90mA	Max.85dB	0.05kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø50 X 50
	MTG50-Waterproof buzzer module	MG50-WBZ-24-SV	Silver	DC24V	90mA	Max.85dB	0.05kg	
	MTG50-Waterproof buzzer module	MG50-WBZ-24-BK	Black	DC24V	90mA	Max.85dB	0.05kg	





· Cover integrated LED Steady/Flashing module

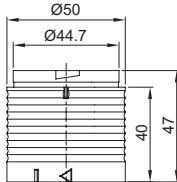
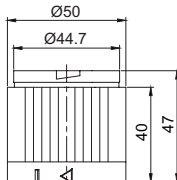
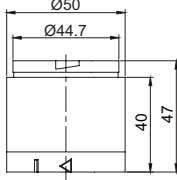
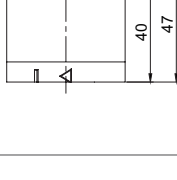
(Units : mm)

Layout			Model No	Color	Specification		Weight	Common Specifications
MG	MC	MR			Voltage	Current		
			MGA50-R-24 MCA50-R-24 MRA50-R-24	Red	DC24V	70mA	0.05kg	- Material: PC - Protection ratings with assemble: IP65 - Product size: Ø50 X 49   

LED module

· LED Steady/Flashing module

(Units : mm)

Layout			Model No	Color	Specification		Weight	Common Specifications
MG	MC	MR			Voltage	Current		
			MG50-R-24 MC50-R-24 MR50-R-24	Red	DC24V	70mA	0.05kg	- Material: PC - Protection ratings with assemble: IP65 - Product size: Ø50 X 47
			MG50-A-24 MC50-A-24 MR50-A-24	Amber	DC24V	70mA	0.05kg	
			MG50-G-24 MC50-G-24 MR50-G-24	Green	DC24V	70mA	0.05kg	
			MG50-B-24 MC50-B-24 MR50-B-24	Blue	DC24V	70mA	0.05kg	
			MG50-W-24 MC50-W-24 MR50-W-24	White	DC24V	70mA	0.05kg	

Modular LED signal tower light with built-in terminal

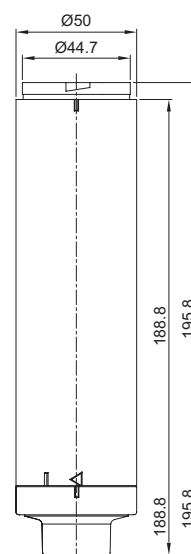
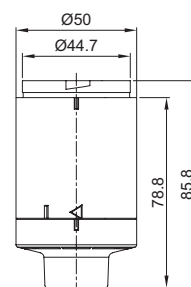
MTG50 / MTC50 / MTR50 Series

Base module

· Pole mount type

(Units : mm)

Layout	Parts Name	Model No	Color	Specification		Weight	Common Specifications
				Voltage	Current		
	MTG50-Pole type base module-DC	MG50-BS-DC	Ivory	DC24V	400mA	0.07kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø50 X 86
	MTG50-Pole type base module-DC	MG50-BS-DC-SV	Silver	DC24V	400mA	0.07kg	
	MTG50-Pole type base module-DC	MG50-BS-DC-BK	Black	DC24V	400mA	0.07kg	
	MTG50-Pole type base module-AC	MG50-BS-AC	Ivory	AC110V -220V	Max. 250mA	0.22kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø50 X 196
	MTG50-Pole type base module-AC	MG50-BS-AC-SV	Silver	AC110V -220V	Max. 250mA	0.22kg	
	MTG50-Pole type base module-AC	MG50-BS-AC-BK	Black	AC110V -220V	Max. 250mA	0.22kg	

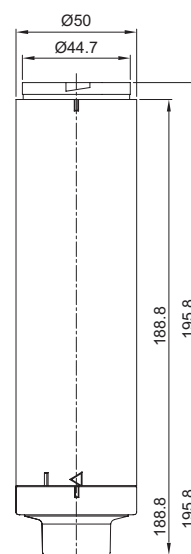
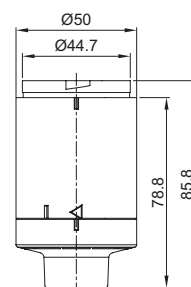




· Self stand type

(Units : mm)

Layout	Parts Name	Model No	Color	Specification		Weight	Common Specifications
				Voltage	Current		
	MTG50-Self stand base module-DC	MG50-MBS-DC	Ivory	DC24V	400mA	0.07kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø50 X 78
	MTG50-Self stand base module-DC	MG50-MBS-DC-SV	Silver	DC24V	400mA	0.07kg	
	MTG50-Self stand base module-DC	MG50-MBS-DC-BK	Black	DC24V	400mA	0.07kg	
	MTG50-Self stand base module-AC	MG50-MBS-AC	Ivory	AC110V -220V	Max. 250mA	0.23kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø50 X 188
	MTG50-Self stand base module-AC	MG50-MBS-AC-SV	Silver	AC110V -220V	Max. 250mA	0.23kg	
	MTG50-Self stand base module-AC	MG50-MBS-AC-BK	Black	AC110V -220V	Max. 250mA	0.23kg	

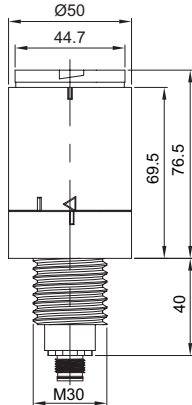


Modular LED signal tower light with built-in terminal

MTG50 / MTC50 / MTR50 Series

· Base module(M12 connector type)

(Units : mm)

Layout	Parts Name	Model No	Color	Specification		Weight	Common Specifications
				Voltage	Current		
	MTG50-M12 connector type base module-DC	MG50-BS-DC -M12	Ivory	DC24V	400mA	0.08kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø50 X 71 
	MTG50-M12 connector type base module-DC	MG50-BS-DC -M12-SV	Silver	DC24V	400mA	0.08kg	
	MTG50-M12 connector type base module-DC	MG50-BS-DC -M12-BK	Black	DC24V	400mA	0.08kg	

Pole

(Units : mm)

Layout	Model No	Thread Specifications	Length	Common Specifications
	PE18-100 PE18-250 PE18-400 PE18-600 PE18-800 PE18-1000	M18	100mm 250mm 400mm 600mm 800mm 1000mm	· Pole Outdia: Ø18



Mount bracket

· Self stand type

(Units : mm)

Layout	Parts Name	Model No	Material	Color	Common Specifications
	18mm SCREW & NUT (standard)	SN18-bracket	Steel	-	-
	LB18	LB18-bracket	Steel	-	
	LW18	LW18-bracket	ABS	Ivory	
	QZ18	QZ18-bracket	ABS	Black	
	SZ18	SZ18-bracket	Al	Silver	
	QL18	QL18-bracket	ABS	Black	
	SL18	SL18-bracket	Al	Silver	

· Self stand type

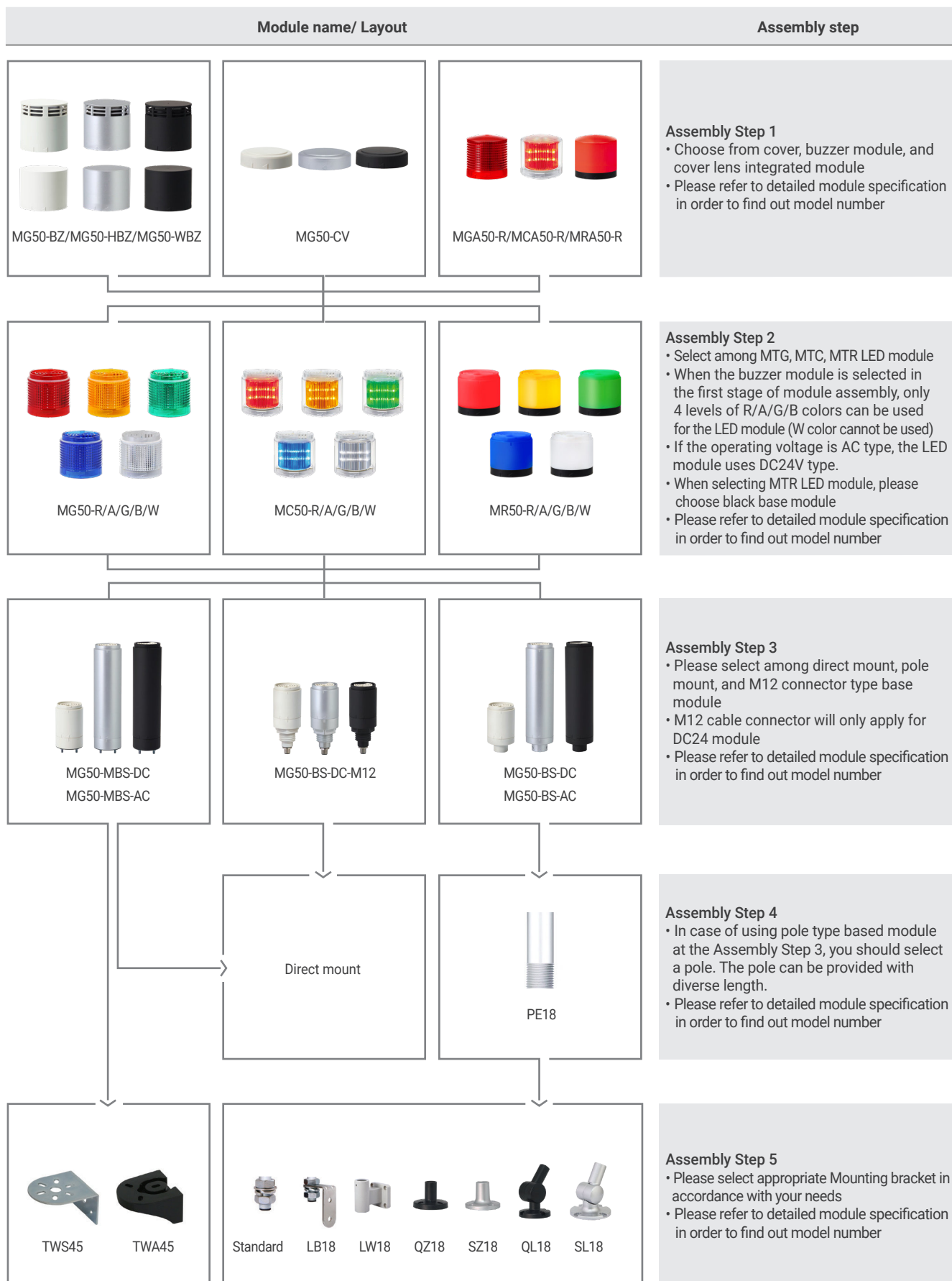
(Units : mm)

Layout	Parts Name	Model No	Material	Color	Common Specifications
	TWS45	TWS45-bracket	Steel	-	-
	TWA45	TWA45-bracket	PC	Black	

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

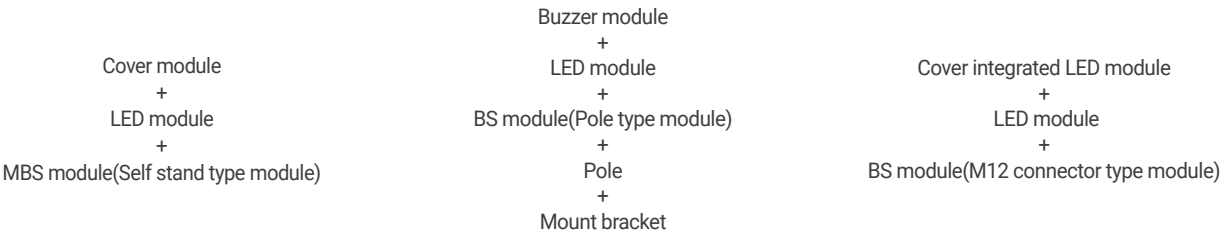
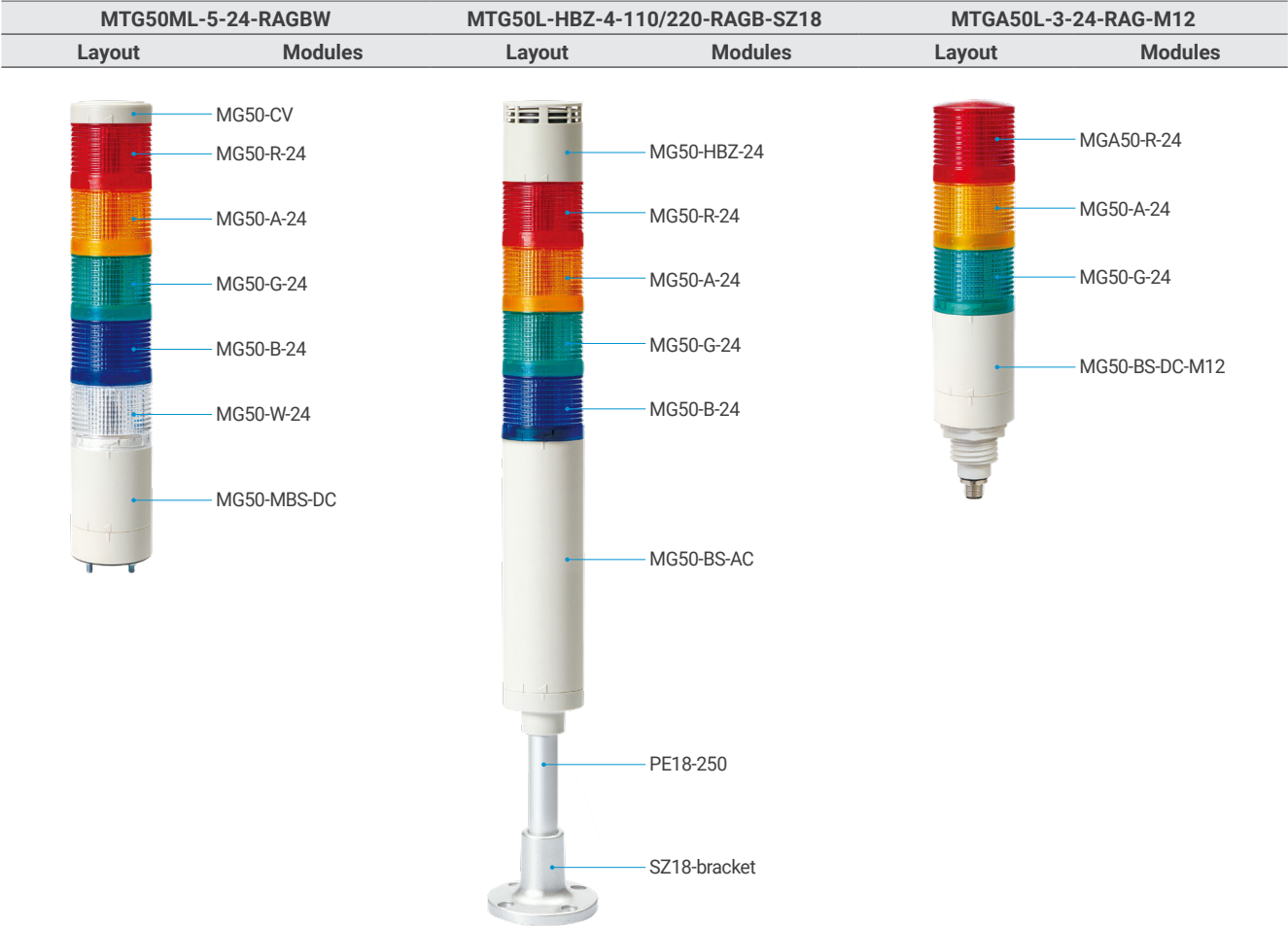
MTG50 / MTC50 / MTR50 Series

How to configure module



Example of MTG50 module configuration

- You can assemble the product through module combination by referring to the diagram below.
- When a buzzer module (standard buzzer module/high volume buzzer module/waterproof buzzer module) is combined, only 4 LED modules can be assembled (W color module cannot be assembled).



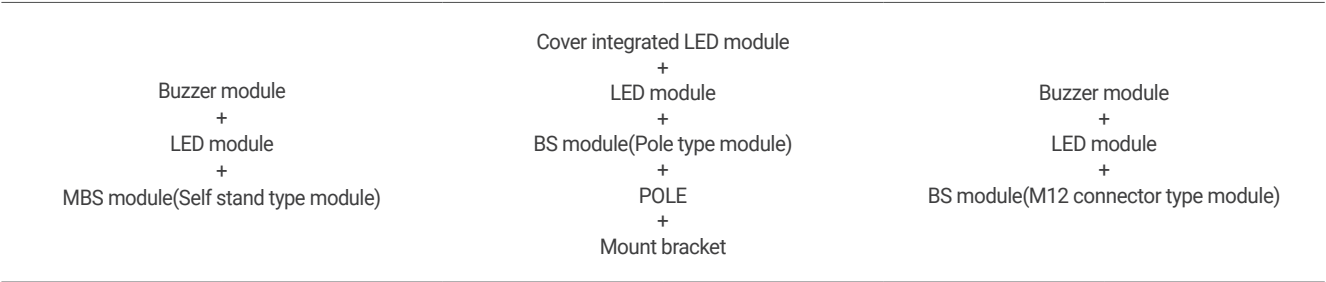
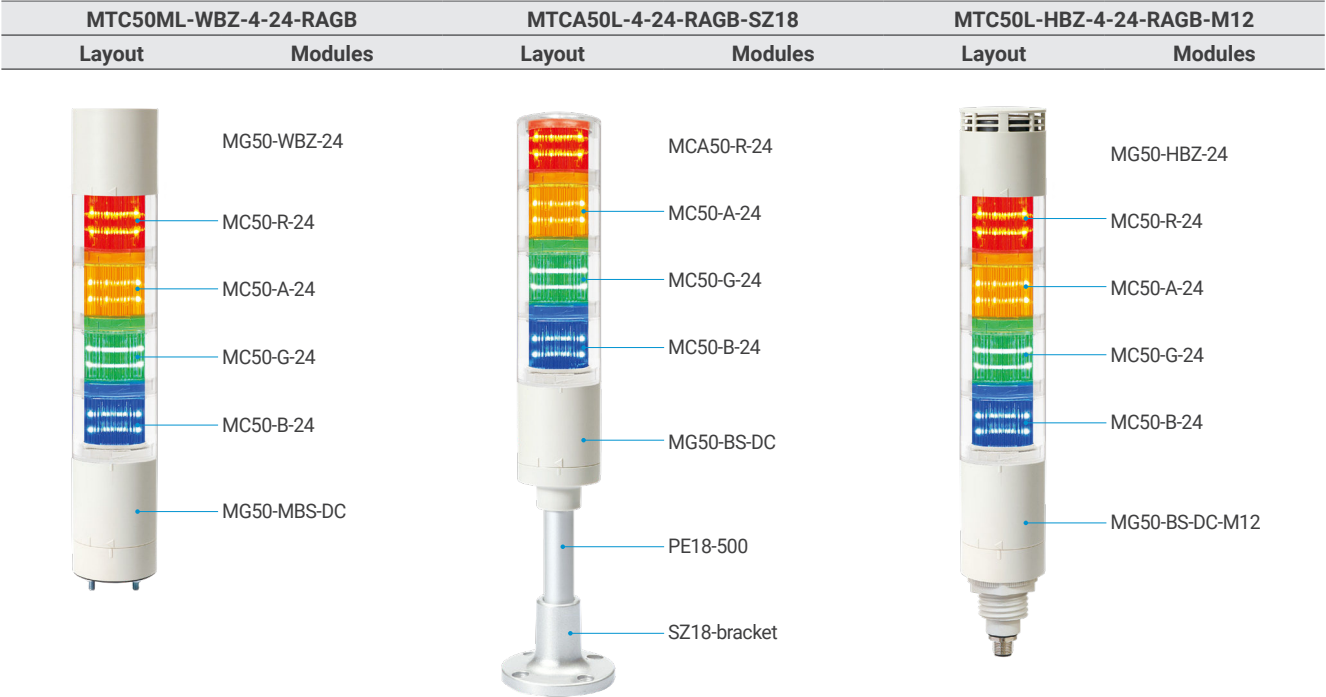
Ordering Specifications

[Upper module]	[LED module]	[Base module]	[Pole]	[Bracket]
MG50-HBZ-24	MG50-R/A/G/B-24	MG50-BS-AC	PE18-250	SZ18
Cover module Buzzer module Cover integrated LED module	R-Red A-Amber G-Green B-Blue W-White	Pole mount type Self stand type M12 connector type	None-Self stand type, M12 connector type Pole type	None-Self stand type, M12 connector type Pole type, Self stand type(Optional)

MTG50 / MTC50 / MTR50 Series

Example of MTC50 module configuration

- You can assemble the product through module combination by referring to the diagram below.
- When a buzzer module (standard buzzer module/high volume buzzer module/waterproof buzzer module) is combined, only 4 LED modules can be assembled (W color module cannot be assembled).

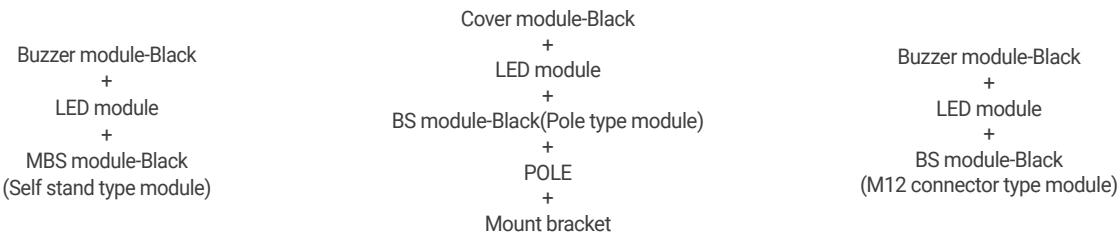
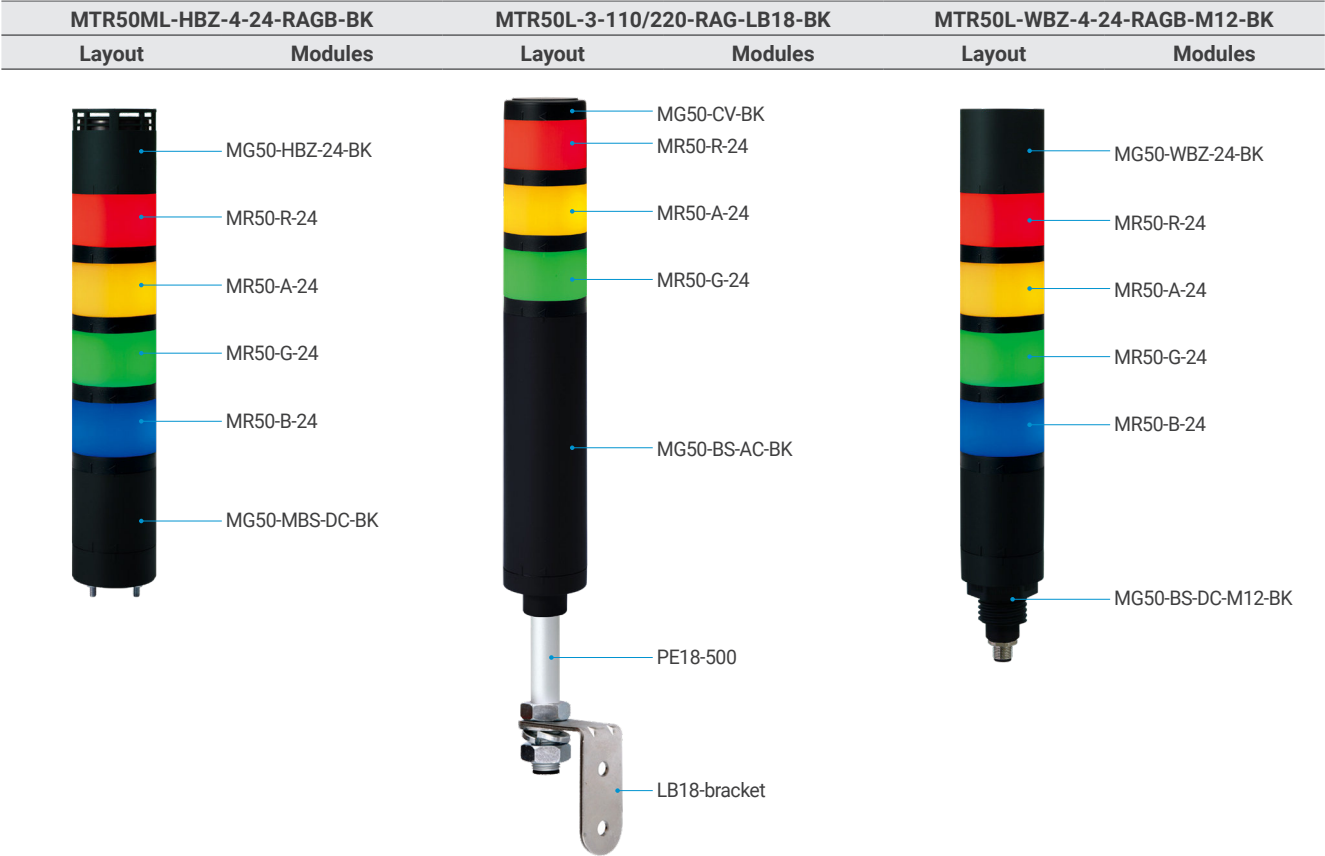


Ordering Specifications

[Upper module]	[LED module]	[Base module]	[Pole]	[Bracket]
MG50-WBZ-24	MC50-R/A/G/B-24	MG50-MBS-DC	None	None
Cover module Buzzer module Cover integrated LED module	R-Red A-Amber G-Green B-Blue ○ W-White	Pole mount type Self stand type M12 connector type	None-Self stand type, M12 connector type Pole type	None-Self stand type, M12 connector type Pole type, Self stand type(Optional)

Example of MTR50 module configuration

- You can assemble the product through module combination by referring to the diagram below.
- When a buzzer module (standard buzzer module/high volume buzzer module/waterproof buzzer module) is combined, only 4 LED modules can be assembled (W color module cannot be assembled).



Ordering Specifications

[Upper module]	[LED module]	[Base module]	[Pole]	[Bracket]
MG50-CV-BK	MR50-R/A/G/B-24	MG50-BS-AC-BK	PE18-500	LB18
Cover module Buzzer module Cover integrated LED module	R-Red A-Amber G-Green B-Blue W-White	Pole mount type Self stand type M12 connector type	None-Self stand type, M12 connector type Pole type	None-Self stand type, M12 connector type Pole type, Self stand type(Optional)

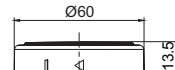
MTG60 / MTC60 / MTR60 Series

Top module

• Cover

(Units : mm)

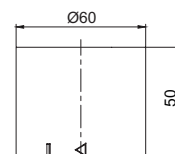
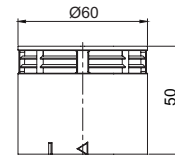
Layout	Parts Name	Model No	Color	Weight	Common Specifications
	MTG60 Cover	MG60-CV	Ivory	0.01kg	- Material: ABS - Protection ratings with assemble: IP65 - Product size: Ø60 X 14
	MTG60 Cover	MG60-CV-SV	Silver	0.01kg	
	MTG60 Cover	MG60-CV-BK	Black	0.01kg	



• Buzzer module

(Units : mm)

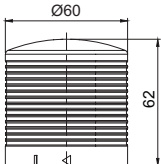
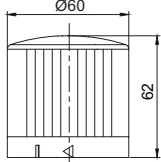
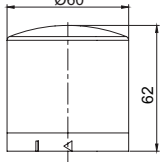
Layout	Parts Name	Model No	Color	Specification		Volume(dB)	Weight	Common Specifications
				Voltage	Current			
	MTG60-Standard buzzer module	MG60-BZ-24	Ivory	DC24V	90mA	Max.90dB	0.06kg	- Material: ABS - Protection ratings with assemble : Non-Waterproof - Product size: Ø60 X 50
	MTG60-High-volume buzzer module	MG60-HBZ-24	Ivory	DC24V	90mA	Max.100dB	0.06kg	
	MTG60-Standard buzzer module	MG60-BZ-24-SV	Silver	DC24V	90mA	Max.90dB	0.06kg	
	MTG60-High-volume buzzer module	MG60-HBZ-24-SV	Silver	DC24V	90mA	Max.100dB	0.06kg	
	MTG60-Standard buzzer module	MG60-BZ-24-BK	Black	DC24V	90mA	Max.90dB	0.06kg	
	MTG60-High-volume buzzer module	MG60-HBZ-24-BK	Black	DC24V	90mA	Max.100dB	0.06kg	
	MTG60-Waterproof buzzer module	MG60-WBZ-24	Ivory	DC24V	90mA	Max.85dB	0.06kg	- Material: ABS - Protection ratings with assemble: IP65 - Product size: Ø60 X 50
	MTG60-Waterproof buzzer module	MG60-WBZ-24-SV	Silver	DC24V	90mA	Max.85dB	0.06kg	
	MTG60-Waterproof buzzer module	MG60-WBZ-24-BK	Black	DC24V	90mA	Max.85dB	0.06kg	





· Cover integrated LED Steady/Flashing module

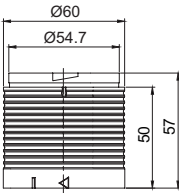
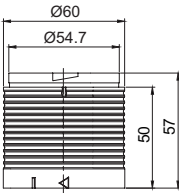
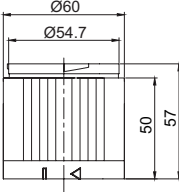
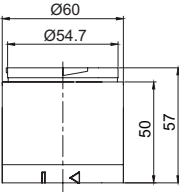
(Units : mm)

Layout			Model No	Color	Specification		Weight	Common Specifications
MG	MC	MR			Voltage	Current		
			MGA60-R-24 MCA60-R-24 MRA60-R-24	Red	DC24V	70mA	0.06kg	- Material: PC - Protection ratings with assemble: IP65 - Product size: Ø60 X 62   

LED module

· LED Steady/Flashing module

(Units : mm)

Layout			Model No	Color	Specification		Weight	Common Specifications
MG	MC	MR			Voltage	Current		
			MG60-R-24 MC60-R-24 MR60-R-24	Red	DC24V	70mA	0.06kg	- Material: PC - Protection ratings with assemble: IP65 - Product size: Ø60 X 57 
			MG60-A-24 MC60-A-24 MR60-A-24	Amber	DC24V	70mA	0.06kg	  
			MG60-G-24 MC60-G-24 MR60-G-24	Green	DC24V	70mA	0.06kg	
			MG60-B-24 MC60-B-24 MR60-B-24	Blue	DC24V	70mA	0.06kg	
			MG60-W-24 MC60-W-24 MR60-W-24	White	DC24V	70mA	0.06kg	

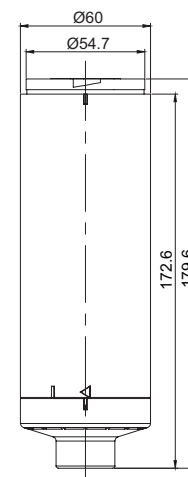
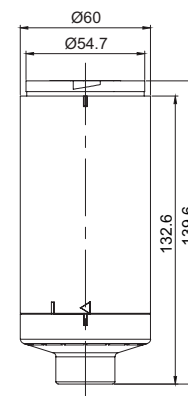
MTG60 / MTC60 / MTR60 Series

Base module

· Pole mount type

(Units : mm)

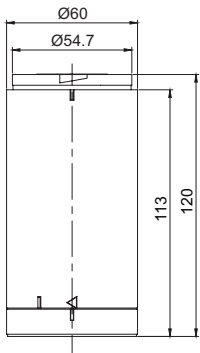
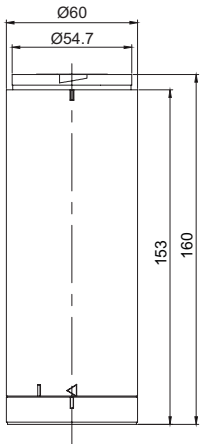
Layout	Parts Name	Model No	Color	Specification		Weight	Common Specifications
				Voltage	Current		
	MTG60-Pole type base module-DC	MG60-BS-DC	Ivory	DC24V	400mA	0.14kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø60 X 140
	MTG60-Pole type base module-DC	MG60-BS-DC-SV	Silver	DC24V	400mA	0.14kg	
	MTG60-Pole type base module-DC	MG60-BS-DC-BK	Black	DC24V	400mA	0.14kg	
	MTG60-Pole type base module-AC	MG60-BS-AC	Ivory	AC110V -220V	Max. 250mA	0.24kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø60 X 180
	MTG60-Pole type base module-AC	MG60-BS-AC-SV	Silver	AC110V -220V	Max. 250mA	0.24kg	
	MTG60-Pole type base module-AC	MG60-BS-AC-BK	Black	AC110V -220V	Max. 250mA	0.24kg	





· Self stand type

(Units : mm)

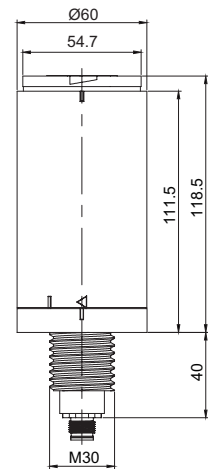
Layout	Parts Name	Model No	Color	Specification		Weight	Common Specifications
				Voltage	Current		
	MTG60-Self stand base module-DC	MG60-MBS-DC	Ivory	DC24V	400mA	0.14kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø60 X 120 
	MTG60-Self stand base module-DC	MG60-MBS-DC-SV	Silver	DC24V	400mA	0.14kg	
	MTG60-Self stand base module-DC	MG60-MBS-DC-BK	Black	DC24V	400mA	0.14kg	
	MTG60-Self stand base module-AC	MG60-MBS-AC	Ivory	AC110V-220V	Max. 250mA	0.25kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø60 X 160 
	MTG60-Self stand base module-AC	MG60-MBS-AC-SV	Silver	AC110V-220V	Max. 250mA	0.25kg	
	MTG60-Self stand base module-AC	MG60-MBS-AC-BK	Black	AC110V-220V	Max. 250mA	0.25kg	

MTG60 / MTC60 / MTR60 Series

· M12 connector type

(Units : mm)

Layout	Parts Name	Model No	Color	Specification		Weight	Common Specifications
				Voltage	Current		
	MTG60-M12 connector type base module-DC	MG60-BS-DC -M12	Ivory	DC24V	400mA	0.15kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø60 X 119
	MTG60-M12 connector type base module-DC	MG60-BS-DC -M12-SV	Silver	DC24V	400mA	0.15kg	
	MTG60-M12 connector type base module-DC	MG60-BS-DC -M12-BK	Black	DC24V	400mA	0.15kg	



Pole

(Units : mm)

Layout	Model No	Thread Specifications	Length	Common Specifications
	PE18-100 PE18-250 PE18-400 PE18-600 PE18-800 PE18-1000	M18	100mm 250mm 400mm 600mm 800mm 1000mm	· Pole Outdia: Ø18

Mounting bracket

· Pole mount type

(Units : mm)

Layout	Parts Name	Model No	Material	Color	Common Specifications
	18mm SCREW & NUT (standard)	SN18-bracket	Steel	-	
	LB18	LB18-bracket	Steel	-	
	LW18	LW18-bracket	ABS	Ivory	
	QZ18	QZ18-bracket	ABS	Black	
	SZ18	SZ18-bracket	Al	Silver	
	QL18	QL18-bracket	ABS	Black	
	SL18	SL18-bracket	Al	Silver	

· Self stand type

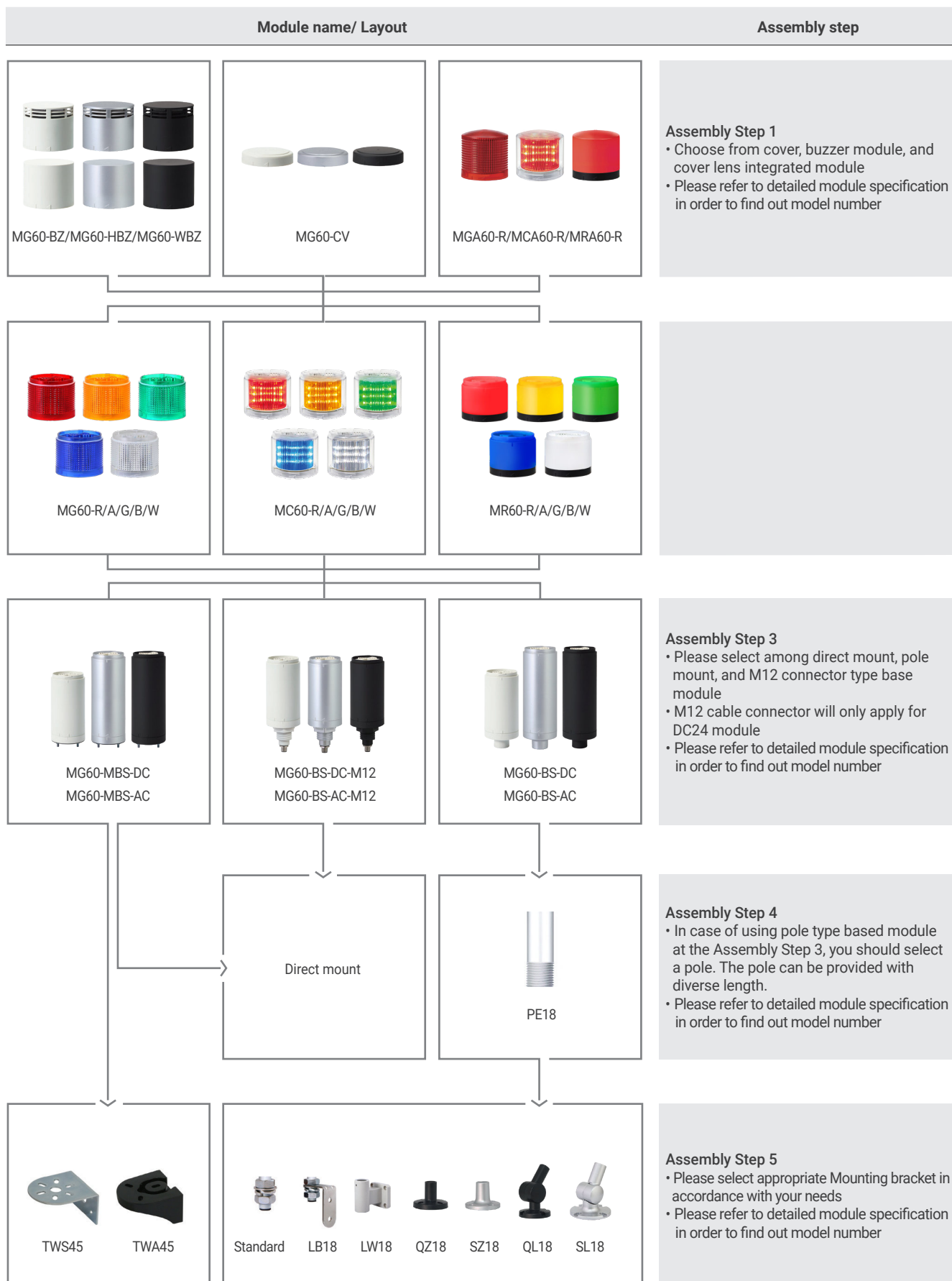
(Units : mm)

Layout	Parts Name	Model No	Material	Color	Common Specifications
	TWS45	TWS45-bracket	Steel	-	
	TWA45	TWA45-bracket	PC	Black	

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

MTG60 / MTC60 / MTR60 Series

How to configure module



Example of MTG60 module configuration

- You can assemble the product through module combination by referring to the diagram below.
- When a buzzer module (standard buzzer module/high volume buzzer module/waterproof buzzer module) is combined, only 4 LED modules can be assembled (W color module cannot be assembled).

MTG60ML-4-24-RAGB-SV		MTG60L-WBZ-3-110/220-RAG-LW18		MTG60L-HBZ-4-24-RAGB-M12	
Layout	Modules	Layout	Modules	Layout	Modules

Cover module-Silver + LED module + MBS module-Silver(Self stand type module)	Buzzer module + LED module + BS module(Pole type module) + POLE + Mount bracket	Buzzer module + LED module + BS module(M12 connector type module)
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Ordering Specifications

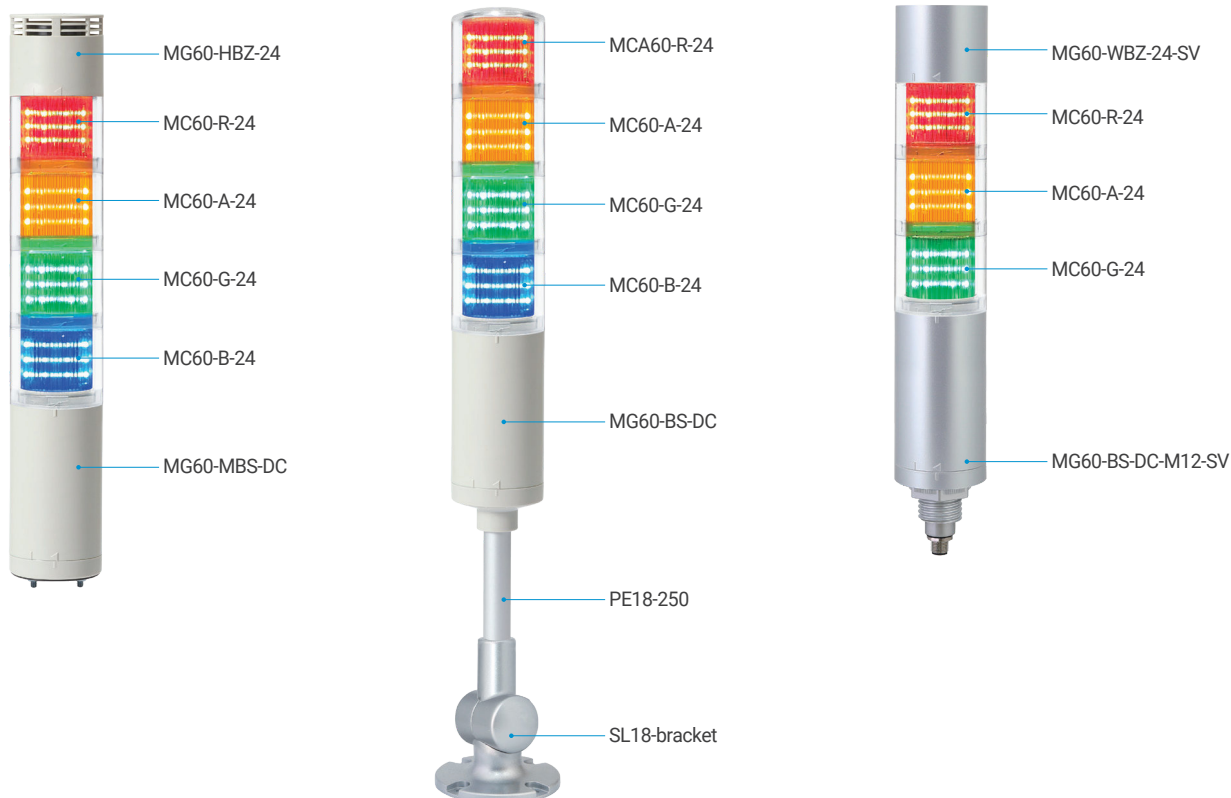
[Upper module]	[LED module]	[Base module]	[Pole]	[Bracket]
MG60-WBZ-24	MG60-R/A/G/B-24	MG60-BS-AC	PE18-250	LW18
Cover module Buzzer module Cover integrated LED module	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White	Pole mount type Self stand type M12 connector type	None-Self stand type, M12 connector type Pole type	None-Self stand type, M12 connector type Pole type, Self stand type(Optional)

MTG60 / MTC60 / MTR60 Series

Example of MTC60 module configuration

- You can assemble the product through module combination by referring to the diagram below.
- When a buzzer module (standard buzzer module/high volume buzzer module/waterproof buzzer module) is combined, only 4 LED modules can be assembled (W color module cannot be assembled).

MTC60ML-HBZ-4-24-RAGB		MTC60L-4-24-RAGB-SL18		MTC60L-WBZ-3-24-RAG-M12-SV	
Layout	Modules	Layout	Modules	Layout	Modules



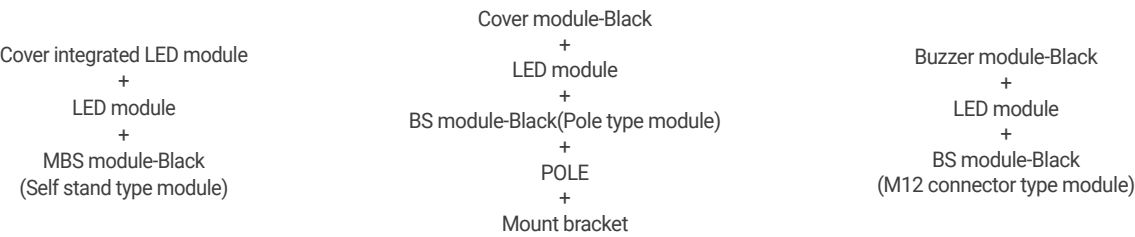
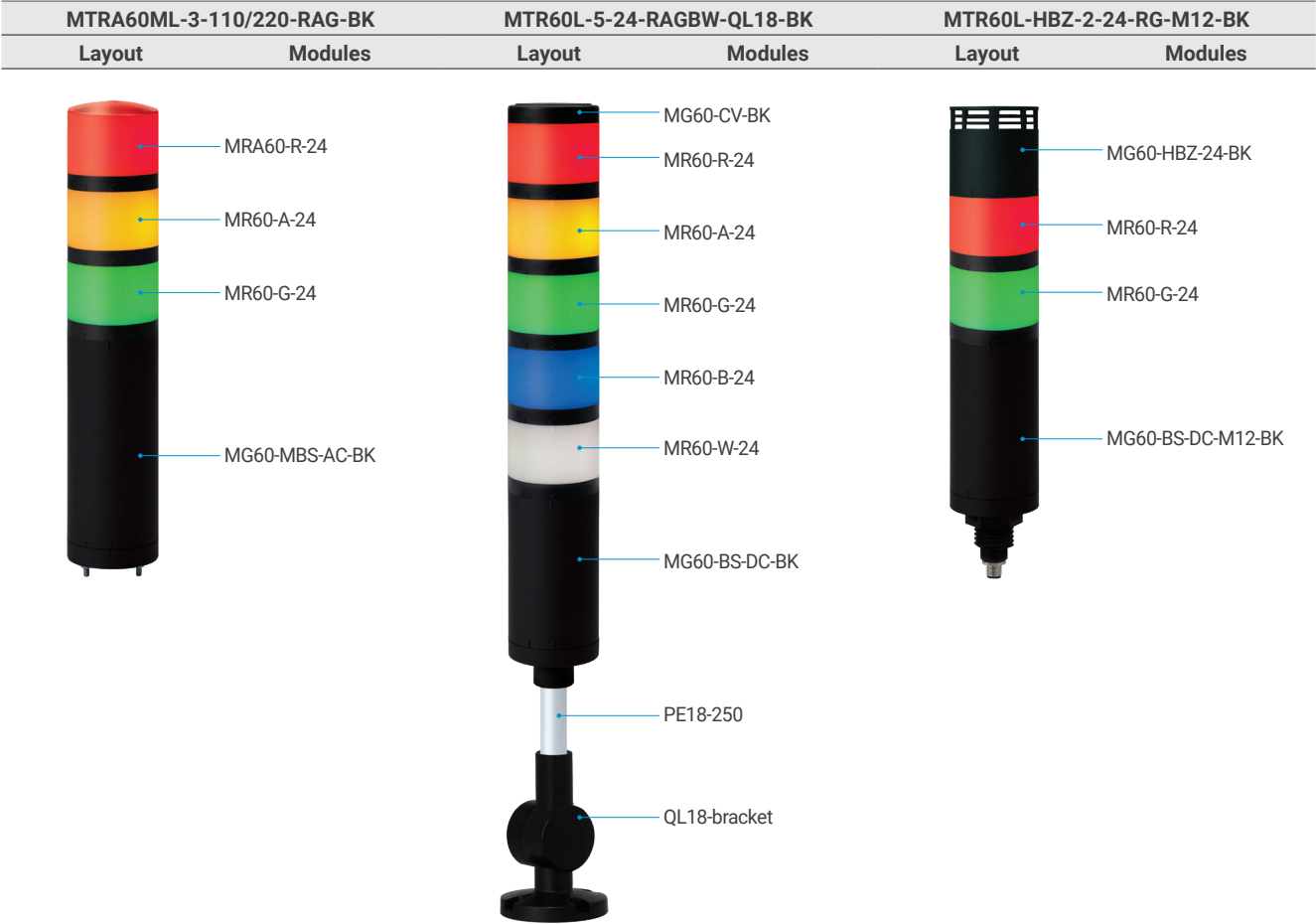
Buzzer module + LED module + MBS module(Self stand type module)	Cover integrated LED module + LED module + BS module(Pole type module) + POLE + Mount bracket	Buzzer module-Silver + LED module + BS module-Silver (M12 connector type module)
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Ordering Specifications

[Upper module]	[LED module]	[Base module]	[Pole]	[Bracket]
MCA60-R-24	MC60-R/A/G/B-24	MG60-BS-DC	PE18-250	SL18
Cover module Buzzer module Cover integrated LED module	R-Red A-Amber G-Green B-Blue W-White	Pole mount type Self stand type M12 connector type	None-Self stand type, M12 connector type Pole type	None-Self stand type, M12 connector type Pole type, Self stand type(Optional)

Example of MTR60 module configuration

- You can assemble the product through module combination by referring to the diagram below.
- When a buzzer module (standard buzzer module/high volume buzzer module/waterproof buzzer module) is combined, only 4 LED modules can be assembled (W color module cannot be assembled).



Ordering Specifications

[Upper module]	[LED module]	[Base module]	[Pole]	[Bracket]
MG60-CV-BK	MR60-R/A/G/B/W-24	MG60-BS-DC-BK	PE18-250	QL18
Cover module Buzzer module Cover integrated LED module	R-Red A-Amber G-Green B-Blue W-White	Pole mount type Self stand type M12 connector type	None-Self stand type, M12 connector type Pole type	None-Self stand type, M12 connector type Pole type, Self stand type(Optional)

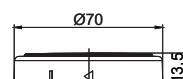
MTG70 / MTC70 / MTR70 Series

Top module

· Cover

(Units : mm)

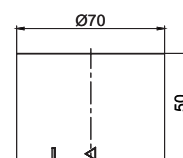
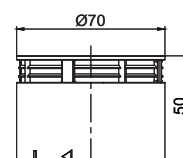
Layout	Parts Name	Model No	Color	Weight	Common Specifications
	MTG70 Cover	MG70-CV	Ivory	0.01kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø70 X 14
	MTG70 Cover	MG70-CV-SV	Silver	0.01kg	
	MTG70 Cover	MG70-CV-BK	Black	0.01kg	



· Buzzer module

(Units : mm)

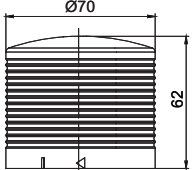
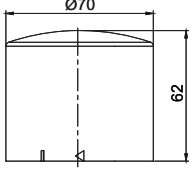
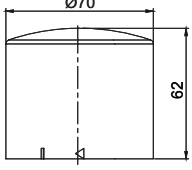
Layout	Parts Name	Model No	Color	Specification		Volume(dB)	Weight	Common Specifications
				Voltage	Current			
	MTG70-Standard buzzer module	MG70-BZ-24	Ivory	DC24V	90mA	Max.90dB	0.07kg	· Material: ABS · Protection ratings with assemble : Non-Waterproof · Product size: Ø70 X 50
	MTG70-High-volume buzzer module	MG70-HBZ-24	Ivory	DC24V	90mA	Max.100dB	0.07kg	
	MTG70-Standard buzzer module	MG70-BZ-24-SV	Silver	DC24V	90mA	Max.90dB	0.07kg	
	MTG70-High-volume buzzer module	MG70-HBZ-24-SV	Silver	DC24V	90mA	Max.100dB	0.07kg	
	MTG70-Standard buzzer module	MG70-BZ-24-BK	Black	DC24V	90mA	Max.90dB	0.07kg	
	MTG70-High-volume buzzer module	MG70-HBZ-24-BK	Black	DC24V	90mA	Max.100dB	0.07kg	
	MTG70-Waterproof buzzer module	MG70-WBZ-24	Ivory	DC24V	90mA	Max.85dB	0.07kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø70 X 50
	MTG70-Waterproof buzzer module	MG70-WBZ-24-SV	Silver	DC24V	90mA	Max.85dB	0.07kg	
	MTG70-Waterproof buzzer module	MG70-WBZ-12-BK	Black	DC24V	90mA	Max.85dB	0.07kg	





· Cover integrated LED Steady/Flashing module

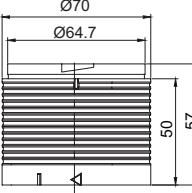
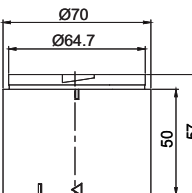
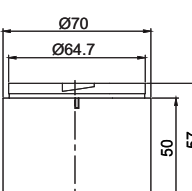
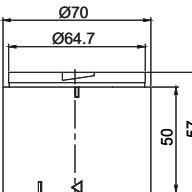
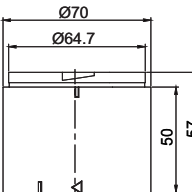
(Units : mm)

Layout			Model No	Color	Specification		Weight	Common Specifications
MG	MC	MR			Voltage	Current		
			MGA70-R-24 MCA70-R-24 MRA70-R-24	Red	DC24V	70mA	0.07kg	· Material: PC · Protection ratings with assemble: IP65 · Product size: Ø70 X 62   

LED module

· LED Steady/Flashing module

(Units : mm)

Layout			Model No	Color	Specification		Weight	Common Specifications
MG	MC	MR			Voltage	Current		
			MG70-R-24 MC70-R-24 MR70-R-24	Red	DC24V	70mA	0.07kg	· Material: PC · Protection ratings with assemble: IP65 · Product size: Ø70 X 57 
			MG70-A-24 MC70-A-24 MR70-A-24	Amber	DC24V	70mA	0.07kg	
			MG70-G-24 MC70-G-24 MR70-G-24	Green	DC24V	70mA	0.07kg	
			MG70-B-24 MC70-B-24 MR70-B-24	Blue	DC24V	70mA	0.07kg	
			MG70-W-24 MC70-W-24 MR70-W-24	White	DC24V	70mA	0.07kg	

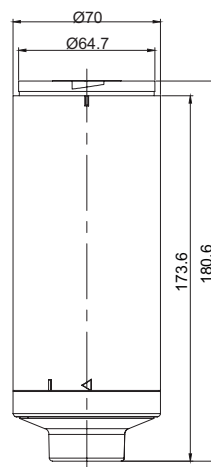
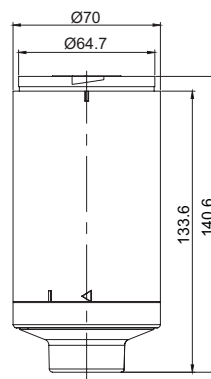
MTG70 / MTC70 / MTR70 Series

Base module

· Pole mount type

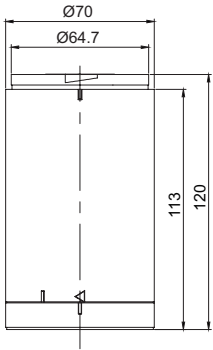
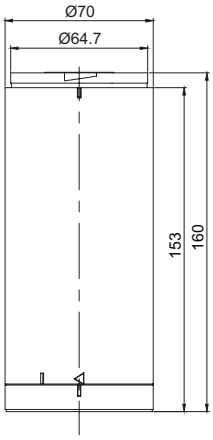
(Units : mm)

Layout	Parts Name	Model No	Color	Specification		Weight	Common Specifications
				Voltage	Current		
	MTG70-Pole type base module-DC	MG70-BS-DC	Ivory	DC24V	400mA	0.17kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø70 X 141
	MTG70-Pole type base module-DC	MG70-BS-DC-SV	Silver	DC24V	400mA	0.17kg	
	MTG70-Pole type base module-DC	MG70-BS-DC-BK	Black	DC24V	400mA	0.17kg	
	MTG70-Pole type base module-AC	MG70-BS-AC	Ivory	AC110V -220V	Max. 250mA	0.27kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø70 X 181
	MTG70-Pole type base module-AC	MG70-BS-AC-SV	Silver	AC110V -220V	Max. 250mA	0.27kg	
	MTG70-Pole type base module-AC	MG70-BS-AC-BK	Black	AC110V -220V	Max. 250mA	0.27kg	



· Self stand type

(Units : mm)

Layout	Parts Name	Model No	Color	Specification		Weight	Common Specifications
				Voltage	Current		
	MTG70-Self stand base module-DC	MG70-MBS-DC	Ivory	DC24V	400mA	0.17kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø70 X 120 
	MTG70-Self stand base module-DC	MG70-MBS-DC-SV	Silver	DC24V	400mA	0.17kg	
	MTG70-Self stand base module-DC	MG70-MBS-DC-BK	Black	DC24V	400mA	0.17kg	
	MTG70-Self stand base module-AC	MG70-MBS-AC	Ivory	AC110V -220V	Max. 250mA	0.28kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø70 X 160 
	MTG70-Self stand base module-AC	MG70-MBS-AC-SV	Silver	AC110V -220V	Max. 250mA	0.28kg	
	MTG70-Self stand base module-AC	MG70-MBS-AC-BK	Black	AC110V -220V	Max. 250mA	0.28kg	

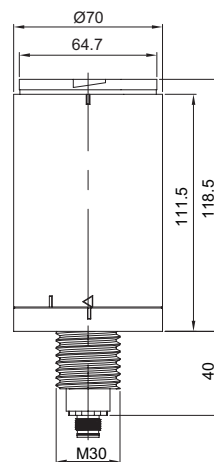
Modular LED signal tower light with built-in terminal

MTG70 / MTC70 / MTR70 Series

· M12 connector type

(Units : mm)

Layout	Parts Name	Model No	Color	Specification		Weight	Common Specifications
				Voltage	Current		
	MTG70-M12 connector type base module-DC	MG70-BS-DC -M12	Ivory	DC24V	400mA	0.19kg	· Material: ABS · Protection ratings with assemble: IP65 · Product size: Ø70 X 119
	MTG70-M12 connector type base module-DC	MG70-BS-DC -M12-SV	Silver	DC24V	400mA	0.19kg	
	MTG70-M12 connector type base module-DC	MG70-BS-DC -M12-BK	Black	DC24V	400mA	0.19kg	



Pole

(Units : mm)

Layout	Model No	Thread Specifications	Length	Common Specifications
	PE24-100 PE24-250 PE24-400 PE24-700 PE24-800 PE24-1000	M24	100mm 250mm 400mm 700mm 800mm 1000mm	· Pole Outdia: Ø24

Mounting bracket

• Pole mount type

(Units : mm)

Layout	Parts Name	Model No	Material	Color	Common Specifications
	24mm washers & nuts(standard)	SN24-bracket	Steel	-	
	LB24	LB24-bracket	Steel	-	
	LW24	LW24-bracket	ABS	Ivory	
	QZ24	QZ24-bracket	ABS	Black	-
	SZ24	SZ24-bracket	Al	Silver	
	QL24	QL24-bracket	ABS	Black	
	SL24	SL24-bracket	Al	Silver	

• Self stand type

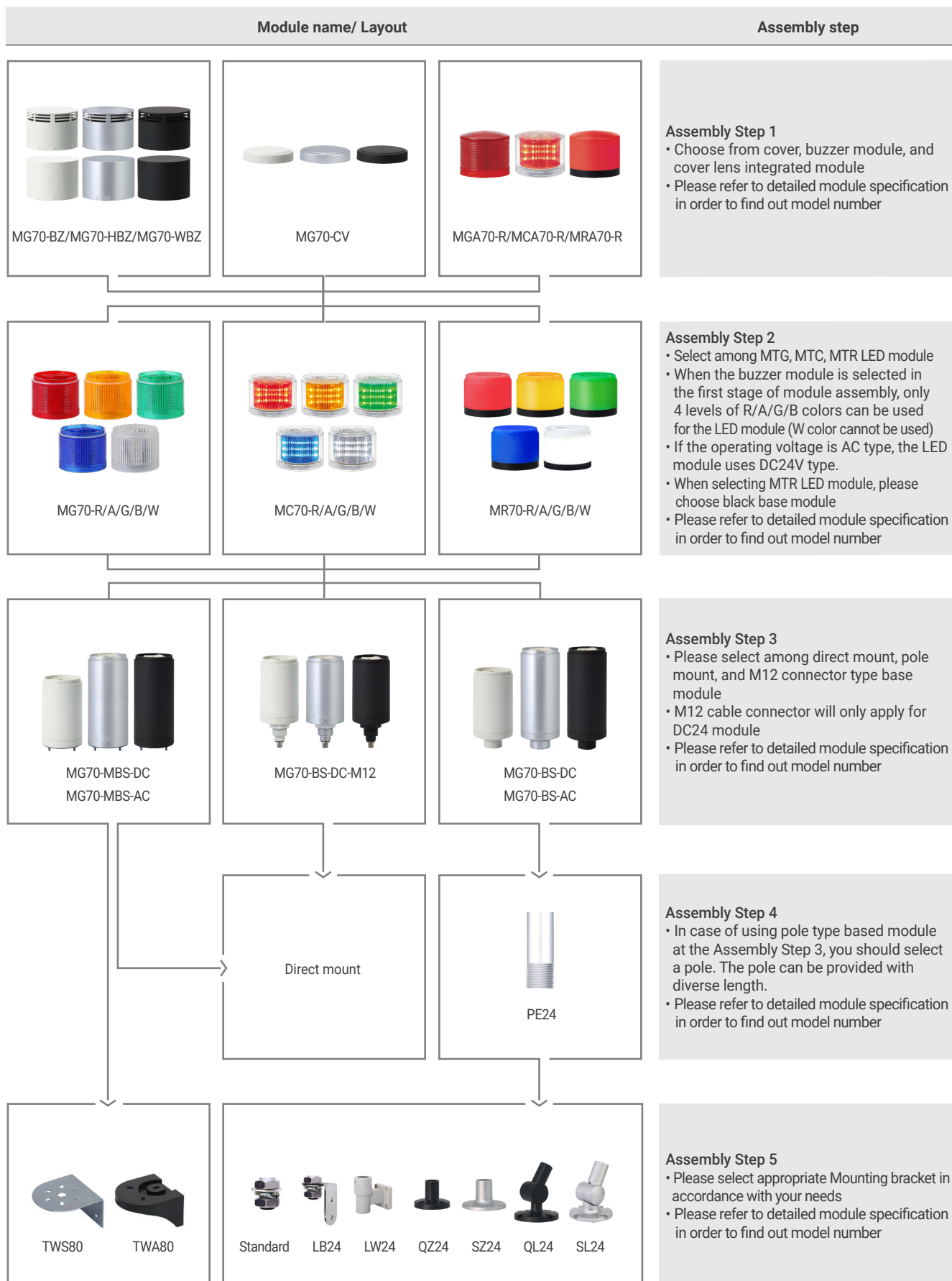
(Units : mm)

Layout	Parts Name	Model No	Material	Color	Common Specifications
	TWS80	TWS45-bracket	Steel	-	
	TWA80	TWA45-bracket	PC	Black	

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

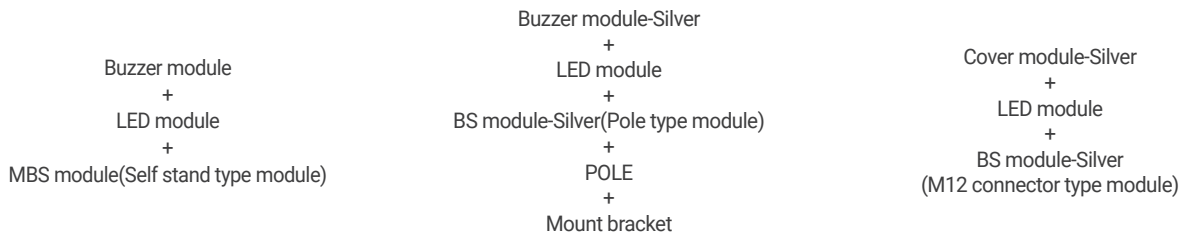
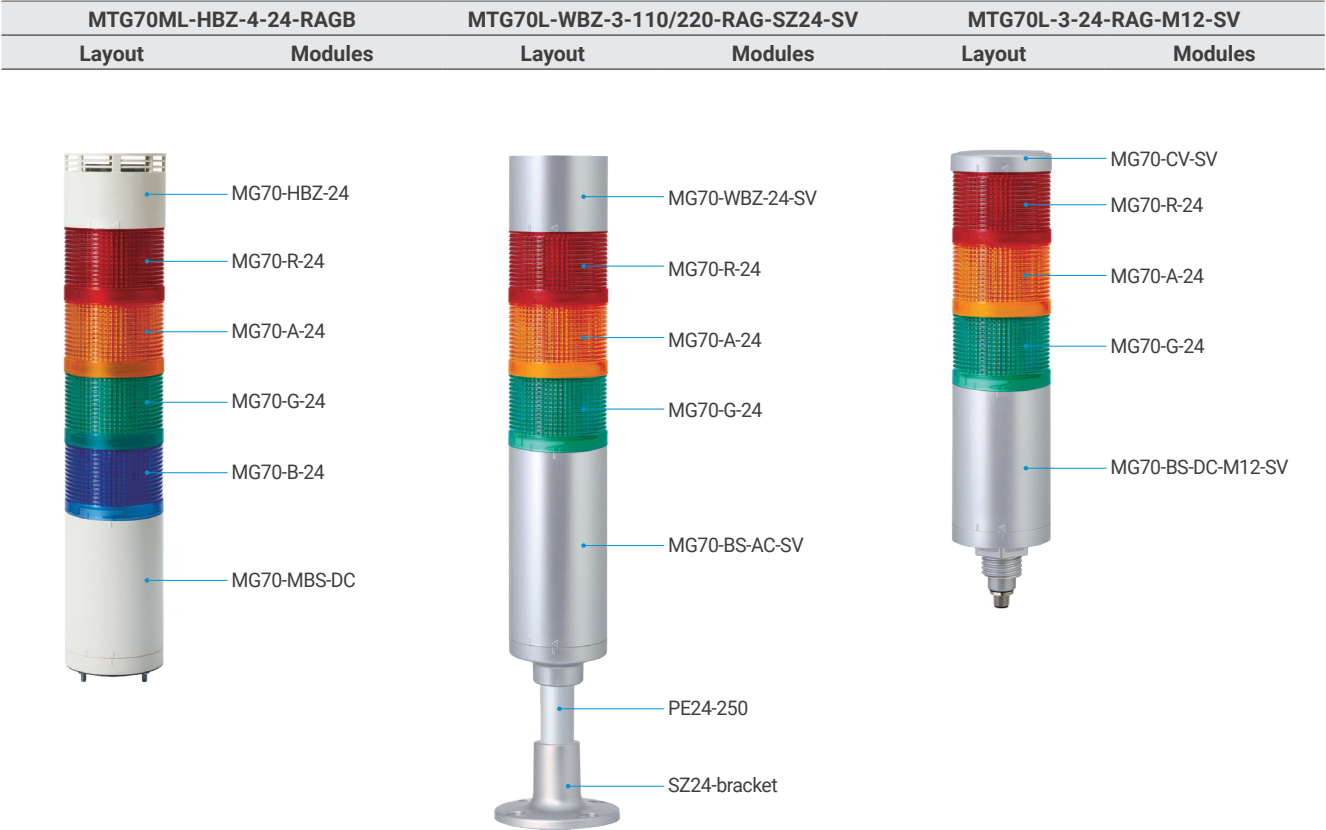
MTG70 / MTC70 / MTR70 Series

How to configure module



Example of MTG70 module configuration

- You can assemble the product through module combination by referring to the diagram below.
- When a buzzer module (standard buzzer module/high volume buzzer module/waterproof buzzer module) is combined, only 4 LED modules can be assembled (W color module cannot be assembled).



Ordering Specifications

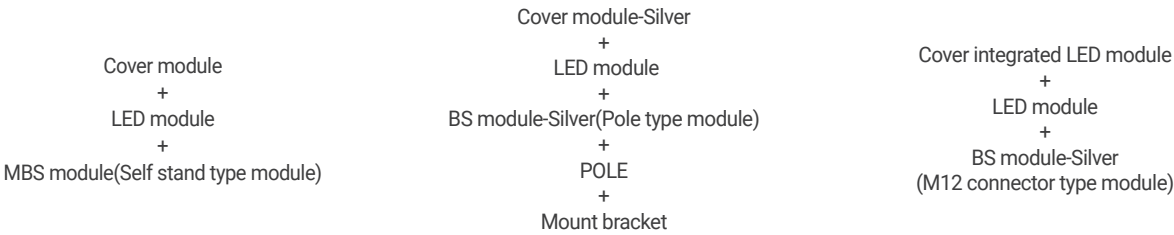
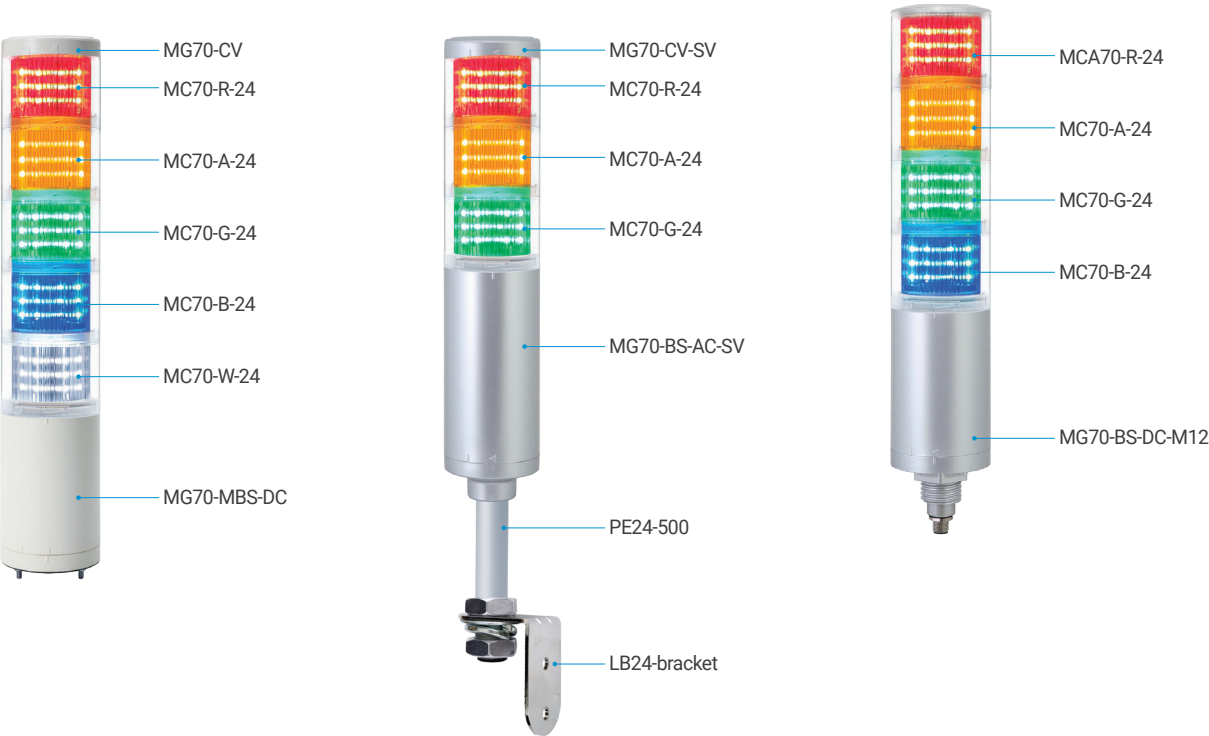
[Upper module]	[LED module]	[Base module]	[Pole]	[Bracket]
MG70-WBZ-24-SV	MG70-R/A/G/B-24	MG70-BS-AC-SV	PE24-250	SZ24
Cover module Buzzer module Cover integrated LED module	R-Red A-Amber G-Green B-Blue ○ W-White	Pole mount type Self stand type M12 connector type	None-Self stand type, M12 connector type Pole type	None-Self stand type, M12 connector type Pole type, Self stand type(Optional)

MTG70 / MTC70 / MTR70 Series

Example of MTC70 module configuration

- You can assemble the product through module combination by referring to the diagram below.
- When a buzzer module (standard buzzer module/high volume buzzer module/waterproof buzzer module) is combined, only 4 LED modules can be assembled (W color module cannot be assembled).

MTC70ML-5-24-RAGBW		MTC70L-3-110/220-RAG-LB24-SV		MTCA70L-4-24-RAGB-M12-SV	
Layout	Modules	Layout	Modules	Layout	Modules

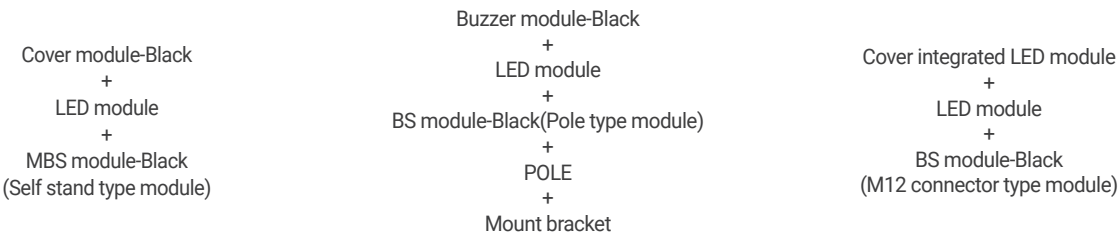
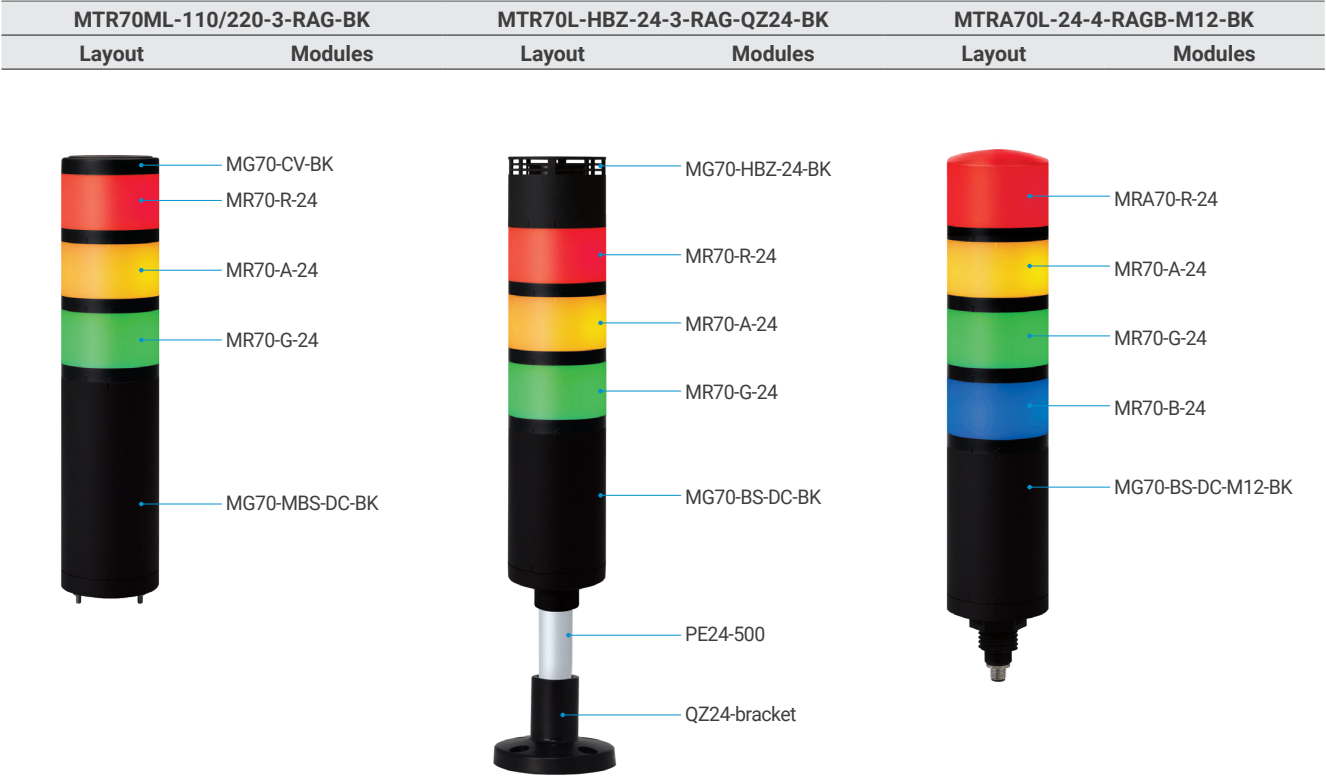


Ordering Specifications

[Upper module]	[LED module]	[Base module]	[Pole]	[Bracket]
MG70-CV-SV	MC70-R/A/G/B-24	MG70-BS-AC-SV	PE24-500	LB24
Cover module Buzzer module Cover integrated LED module	R-Red A-Amber G-Green B-Blue W-White	Pole mount type Self stand type M12 connector type	None-Self stand type, M12 connector type Pole type	None-Self stand type, M12 connector type Pole type, Self stand type(Optional)

Example of MTR70 module configuration

- You can assemble the product through module combination by referring to the diagram below.
- When a buzzer module (standard buzzer module/high volume buzzer module/waterproof buzzer module) is combined, only 4 LED modules can be assembled (W color module cannot be assembled).



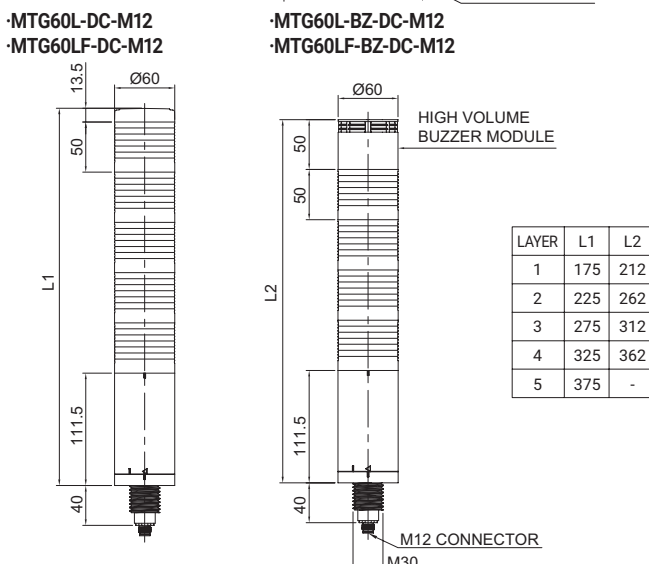
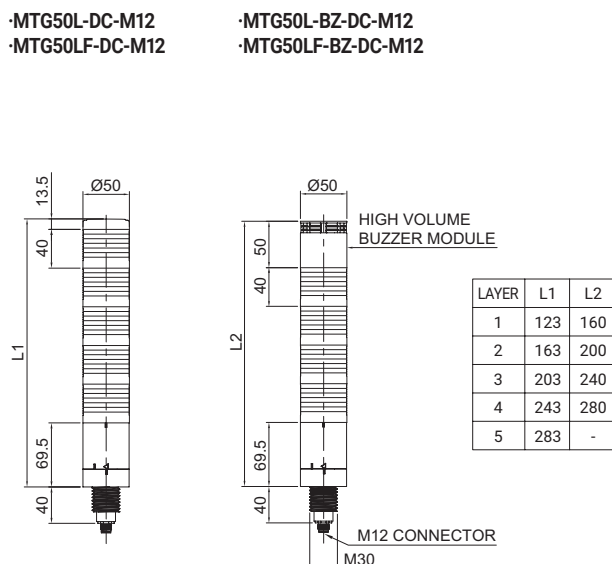
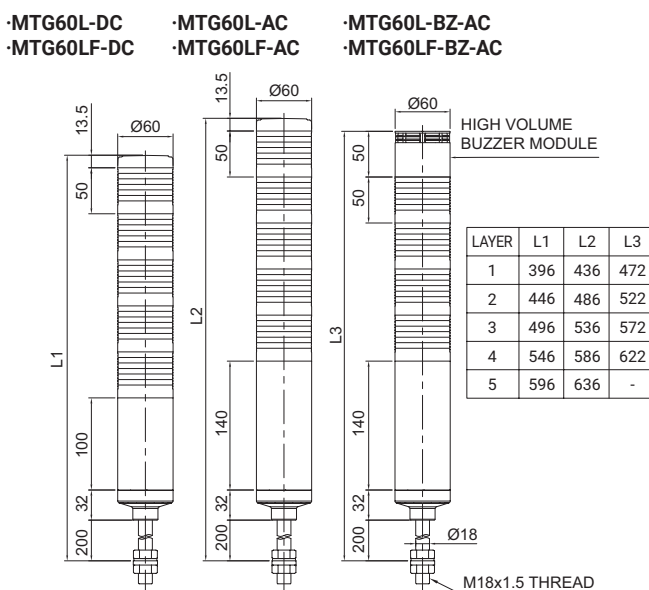
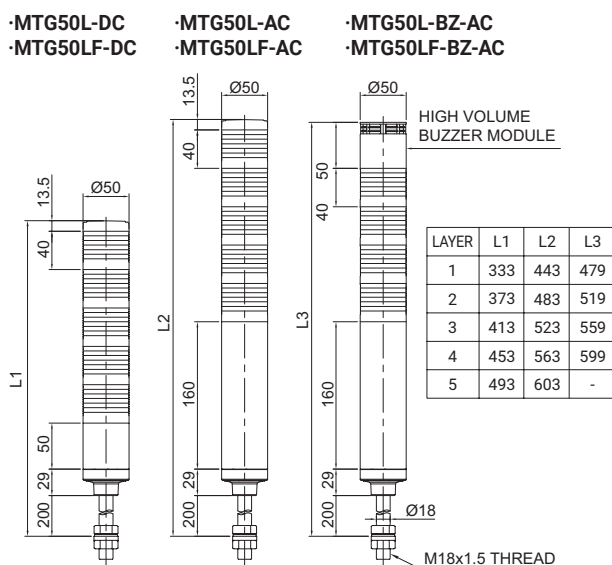
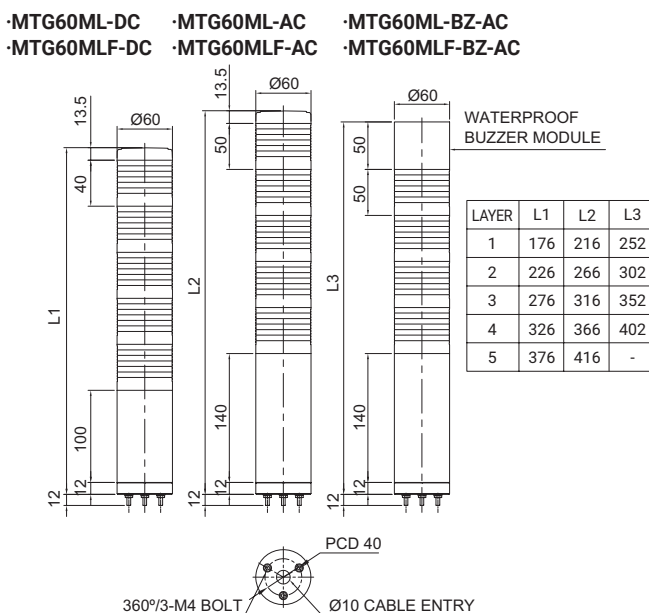
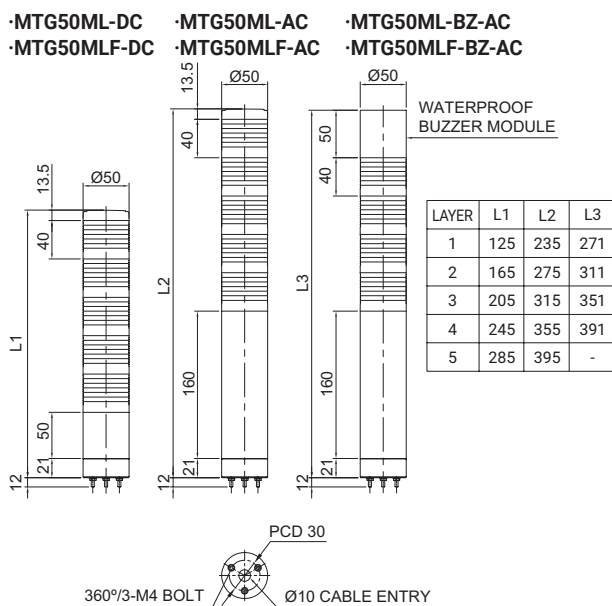
Ordering Specifications

[Upper module]	[LED module]	[Base module]	[Pole]	[Bracket]
MG70-HBZ-24-BK	MR70-R/A/G/B/W-24	MG70-BS-DC-BK	PE24-500	QZ24
Cover module Buzzer module Cover integrated LED module	R-Red A-Amber G-Green B-Blue W-White	Pole mount type Self stand type M12 connector type	None-Self stand type, M12 connector type Pole type	None-Self stand type, M12 connector type Pole type, Self stand type(Optional)

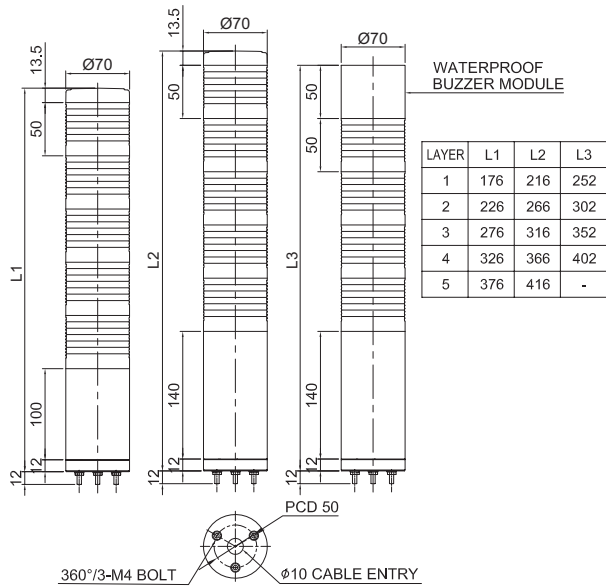
MTG / MTC / MTR Series

Technical Diagram

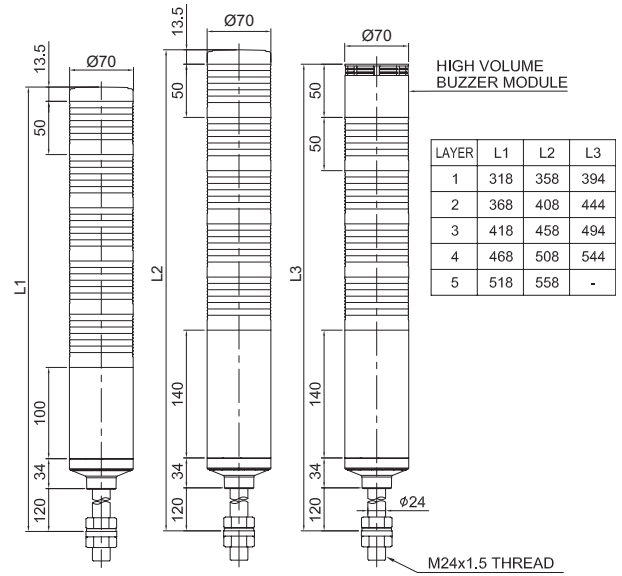
Units : mm



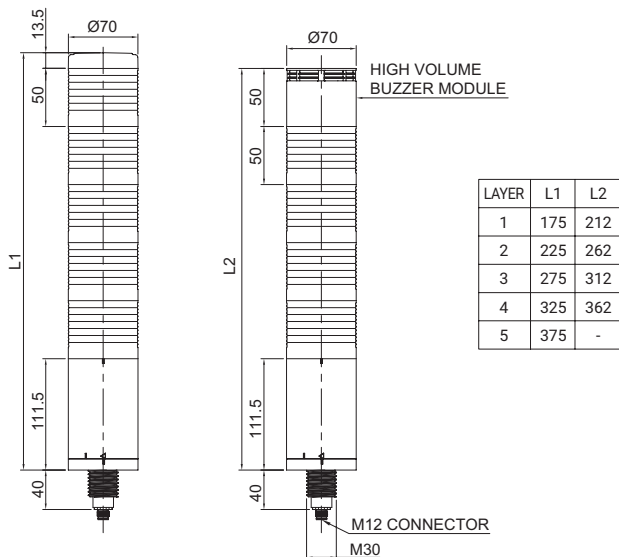
·MTG70ML-DC ·MTG70ML-AC ·MTG70ML-BZ-AC
·MTG70MLF-DC ·MTG70MLF-AC ·MTG70MLF-BZ-AC



·MTG70L-DC ·MTG70L-AC ·MTG70L-BZ-AC
·MTG70LF-DC ·MTG70LF-AC ·MTG70LF-BZ-AC



·MTG70L-DC-M12 ·MTG70L-BZ-DC-M12
·MTG70LF-DC-M12 ·MTG70LF-BZ-DC-M12



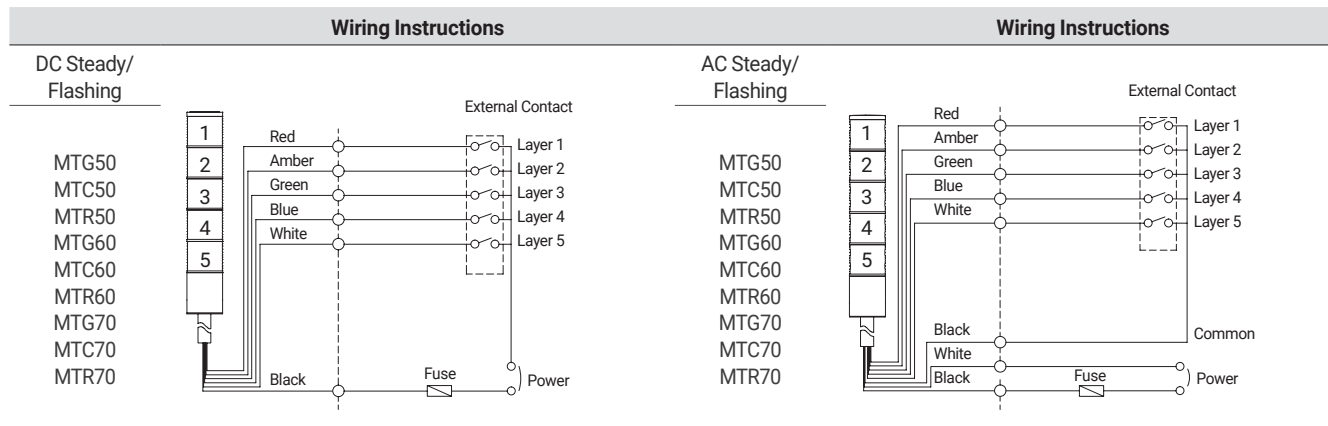
* For external dimensions of MTC / MTR products, refer to the MTG model.

* Buzzer module can be selected among standard buzzer module, high-volume buzzer module and waterproof buzzer module.

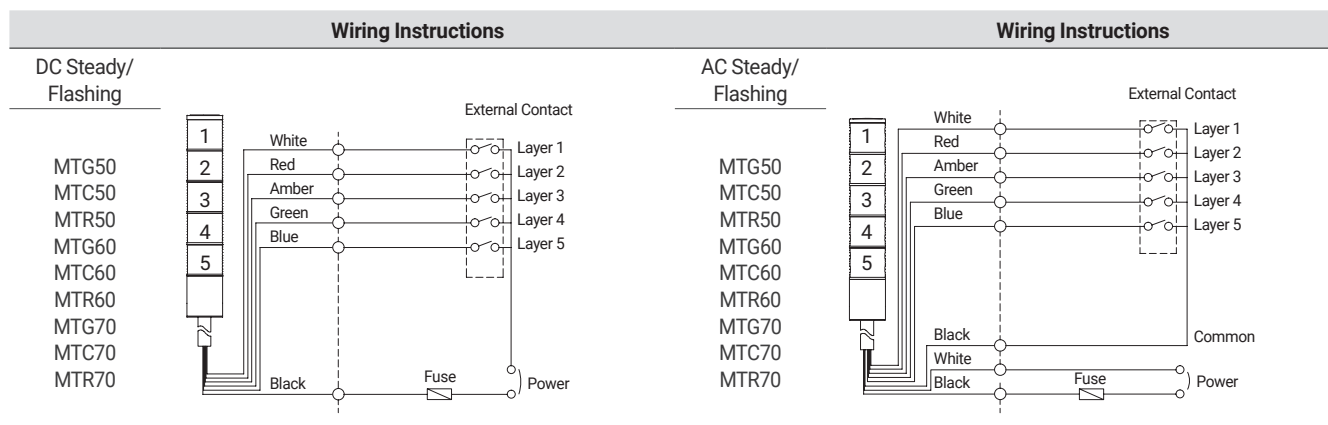
Wiring Instructions(Wiring using External Contact)

· In case of wiring with External Contacts, refer to the wiring diagrams below according to your product's type and voltage setting.

· In case of buzzer not applied



· In case of buzzer applied



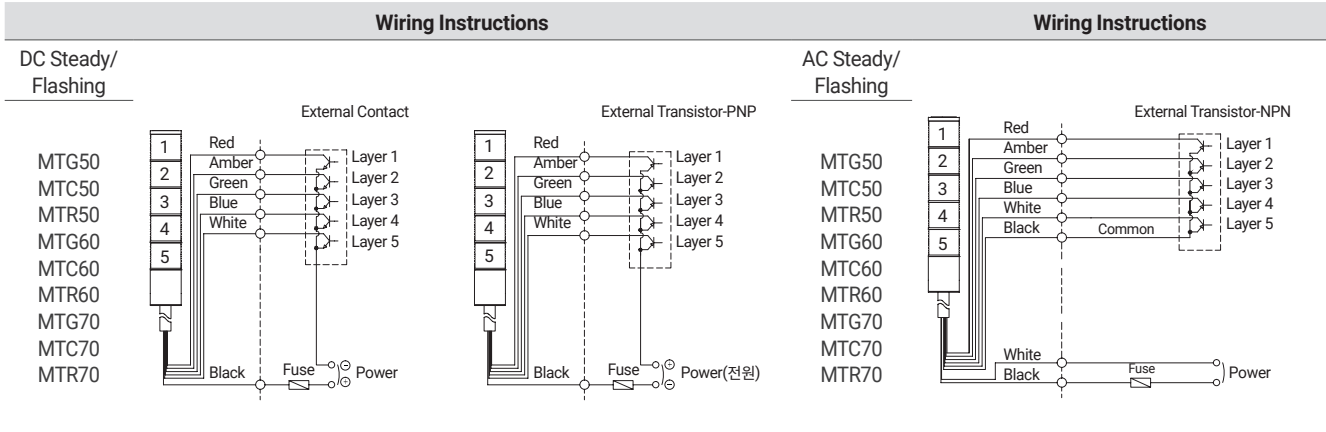
Recommended signal line information

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED light source tower lamp can be connected using External Contacts and transistors.
- The wiring method for MTG / MTC / MTR products is the same.

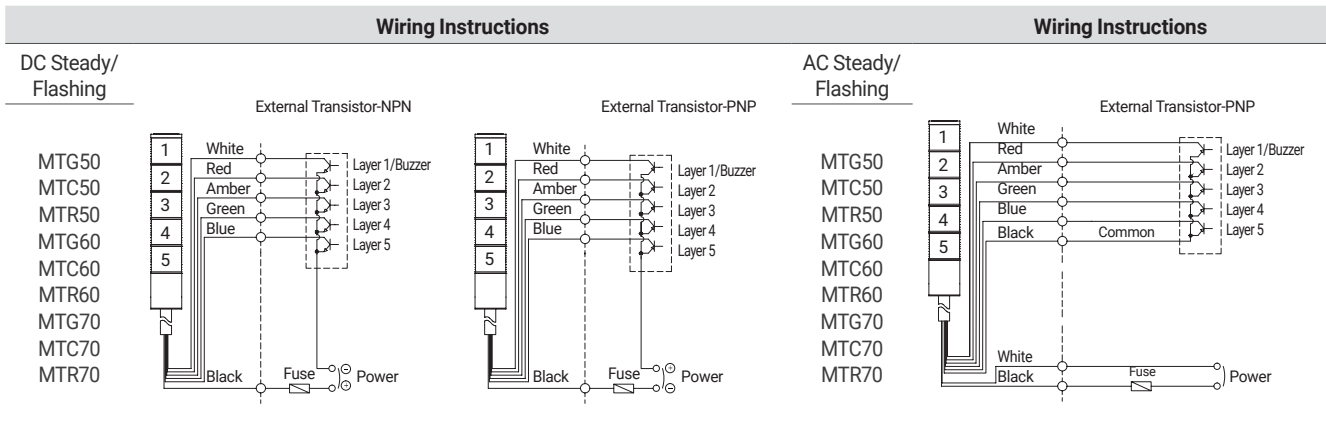
Wiring Instructions(Wiring using transistor)

- When using a transistor, please choose between the NPN or PNP type transistor which best matches the voltage and product type, then connect them correctly according to the wiring diagrams below.

In case of buzzer not applied



In case of buzzer applied



Recommended signal line information

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED light source tower lamp can be connected using External Contacts and transistors.
- The wiring method for MTG / MTC / MTR products is the same.

MTG / MTC / MTR Series

Wiring diagrams(In case of M12 connector type model)

- M12 connector module can be supplied DC type only. (It same goes for External Contact/Transistor contact)
- Please wire the product by referring below PIN-MAP.

Wiring Instructions		Wiring Instructions(PIN-MAP)																			
DC Steady/ Flashing			<table border="1"> <thead> <tr> <th>PIN</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Layer1</td> </tr> <tr> <td>2</td> <td>Layer2</td> </tr> <tr> <td>3</td> <td>Layer3</td> </tr> <tr> <td>4</td> <td>Layer4</td> </tr> <tr> <td>5</td> <td>Layer5</td> </tr> <tr> <td>6</td> <td>N/A</td> </tr> <tr> <td>7</td> <td>N/A</td> </tr> <tr> <td>8</td> <td>POWER(-)</td> </tr> </tbody> </table>	PIN	DESCRIPTION	1	Layer1	2	Layer2	3	Layer3	4	Layer4	5	Layer5	6	N/A	7	N/A	8	POWER(-)
PIN	DESCRIPTION																				
1	Layer1																				
2	Layer2																				
3	Layer3																				
4	Layer4																				
5	Layer5																				
6	N/A																				
7	N/A																				
8	POWER(-)																				
MTG50-M12 MTC50-M12 MTR50-M12 MTG60-M12 MTC60-M12 MTR60-M12 MTG70-M12 MTC70-M12 MTR70-M12																					

Wiring diagrams(Terminal Wiring Information)

- Please refer to wiring diagram for further information.

Terminal block wiring method(DC Type)

MTG/MTC/MTR50

MTG/MTC/MTR60

MTG/MTC/MTR70

C	COMMON
R	RED
A	AMBER
G	GREEN
B	BLUE
W	WHITE

Terminal block wiring method(AC Type)

MTG/MTC/MTR50

MTG/MTC/MTR60

MTG/MTC/MTR70

N(-)	AC POWER
-	N/A
L(+)	AC POWER

C	COMMON
R	RED
A	AMBER
G	GREEN
B	BLUE
W	WHITE



QT50L / QT50ML
QT70L / QT70ML

New Model Concept which Allows for Significant Customization to Your Specific Needs Using Special Modular Components



- QT Series tower light is a multifunctional product that allows for significant customization to your specific needs using our special modular components such as the lens, buzzer, USB cord and Mounting brackets. Additional tools are not required for assembly
- All modular components can be arranged freely to the user desired position (upper/ lower) except for the dial tone lever



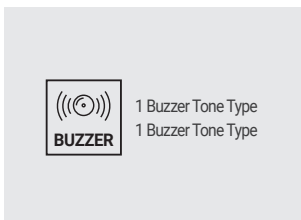
· Buzzer modules position can be chosen freely

The buzzer module is designed to be compatible with the light modules by using a novel architecture developed by Qlight. Therefore, users can reposition the module to the location they desire. In the photo to the left, the buzzer module is located at the top, center and bottom positions.



· Can select from a variety of LED light functions

The LED indicator can provide varying signals/actions by using different independent light modules; flashing, strobe, rotating. For example, green would indicate risk which can be highlighted further by selecting a strobe flashing or rotating module.



· Buzzer sound selection

Modules that output buzzer sounds can be arranged according to the work environment and purpose. For detailed specifications of the buzzer sound module, please refer to QT Series [Buzzer Module].



· Can select from a variety of pole selections to fit your application needs

You can choose from 8 different kinds of pole options for mounting. The pole materials vary from steel, aluminum, and polycarbonate. Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions



· Module sales

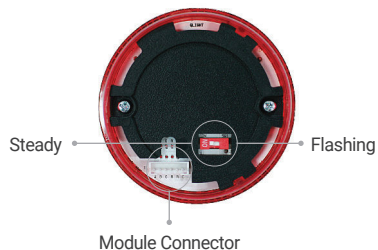
Consumers can purchase the modules they need and assemble them themselves. Detailed specifications and features of the module are introduced on the QT50 / QT70 module information page. References for module combinations are included on the Assembly Instructions page.

· Assembly sales

We assemble the functions requested by consumers and supply them as finished products. Assembly specifications for various model numbers are introduced on the QT50 / QT70 product detail page.

QT Series

Multi-functional module can be assemble to user requirements



Please use the switch for Steady and Flashing which is on top of Q50L-F and Q70L-F, LED steady/flashing module.

Module Connection



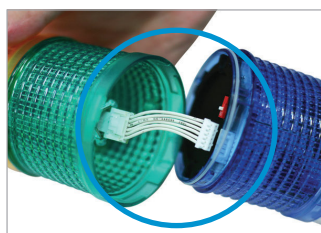
1 Connect wire between module



2 Match the edge of module



3 To assemble turn right



Uses a connector for easy assembly

LED module

- 4 kinds of LED modules; Steady, steady/flashing, strobe, revolving flashing
- Good visibility with high brightness.
- Module position can be chosen based on signal importance.



Q70L-N



Q50L-N

LED Steady Module

- Output LED Steady signal
- High brightness LED
- Voltage: DC12V, DC24V, AC110V, AC220V



Q70L-F



Q50L-F

LED Steady/Flashing Module

- Output LED Steady/Flashing signal
- High brightness LED
- Voltage: DC12V, DC24V, AC110V, AC220V



Q70L-S



Q50L-S

LED Strobe Module

- LED Strobe Module
- Excellent notice compare to flashing type
- Voltage: DC12V, DC24V



Q70L-R



Q50L-R

LED Revolving Flashing Module

- LED light revolve and flash
- Dynamic Signal
- Voltage: DC12V, DC24V

Buzzer module

- Buzzer module has Siren and Bip sound, Bip sound is adjustable.
- Buzzer module position can be chosen freely and has a good air tight seal.



Q70L-BZS

Siren Sound Buzzer Module

- Siren buzzer volume: Max.90dB
- Sound fixed
- Voltage: DC12V, DC24V, AC110V, AC220V



Q70L-BZ



Q50L-BZ

Bip Sound Buzzer Module

- Bip sound(Pi-Pi) volume : Max 90dB
- Sound adjustable
- Voltage: DC12V, DC24V, AC110V, AC220V



- Sound adjustable by lever on module side
- Buzzer module position can be chosen freely

Module Connection

- Adopts a convenient connector for easy assemble.
- Simple connection structure makes assembly straightforward and effortless when compared to other manufacturer's products.

Base Module is composed of the control line and threaded to the Mounting bracket for improved product mounting efficiency.
Please refer to below instruction and choose the mount type.

Base Module

- 6P terminal plate equipped on basic module. Please refer to QT Series wiring diagram for wiring of power line and signal line

Direct mount		3 Bolts on base module
Wall mount		Wall mount bracket on base module
Pole mount		Pole module and pole assemble on base module

Module Color

- Housing color of the QT series modular tower lights is black
- Customizable in beige color

Wiring Instructions

- QT series can be wired to External Contact and transistor
- In case of wiring with transistor, please select the proper transistor type either NPN or PNP based on the source voltage setting
- DC Steady type : External power/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC Steady, AC/DC steady/flashing type :
External power line - UL1015 AWG18(0.75sq)×2C 400mm
External signal line - UL1007 AWG22(0.3sq)400mm

Mounting bracket

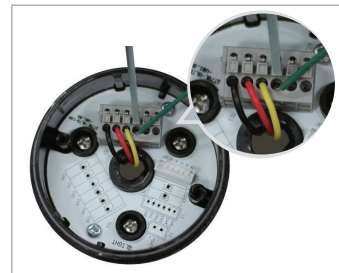
- Pole Mount Brackets

Standard	LB18 LB24	LW18 LW24	QZ18 QZ24	SZ18 SZ24	QL18 QL24	SL18 SL24
						
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions



Power Line Wiring Instructions



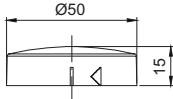
Terminal box can be wired without a special tool by using the push and release locking mechanism.

Modular Multi-Functional LED Tower Lights

QT50 Series

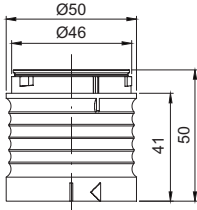
Module Specifications QT50L / QT50ML

(Units : mm)

Layout	Parts Name	Model No	Common Specifications
	QT50L Cover	Q50L-CV	- Material: PC - Protection ratings with assemble: IP65 - Product size: Ø50 x 15 

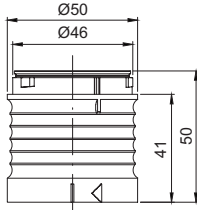
· LED Steady Module

(Units : mm)

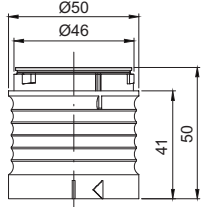
Layout	Parts Name	Model No	Specification		Common Specifications
			Voltage	Current	
	Q50L-NR Red LED Steady Module	Q50L-NR-12 Q50L-NR-24 Q50L-NR-110 Q50L-NR-220	DC12V DC24V AC110V AC220V	100mA 55mA 25mA 25mA	- Material: PC - Protection ratings with assemble : IP65 - Product size: Ø50 x 50 
	Q50L-NA Amber LED Steady Module	Q50L-NA-12 Q50L-NA-24 Q50L-NA-110 Q50L-NA-220	DC12V DC24V AC110V AC220V	100mA 55mA 25mA 25mA	
	Q50L-NG Green LED Steady Module	Q50L-NG-12 Q50L-NG-24 Q50L-NG-110 Q50L-NG-220	DC12V DC24V AC110V AC220V	100mA 55mA 25mA 25mA	
	Q50L-NB Blue LED Steady Module	Q50L-NB-12 Q50L-NB-24 Q50L-NB-110 Q50L-NB-220	DC12V DC24V AC110V AC220V	100mA 55mA 25mA 25mA	
	Q50L-NC White LED Steady Module	Q50L-NC-12 Q50L-NC-24 Q50L-NC-110 Q50L-NC-220	DC12V DC24V AC110V AC220V	100mA 55mA 25mA 25mA	

· LED Steady/Flashing Module

(Units : mm)

Layout	Parts Name	Model No	Specification		Common Specifications
			Voltage	Current	
	Q50L-FR Red LED Steady/Flashing Module	Q50L-FR-12 Q50L-FR-24 Q50L-FR-110 Q50L-FR-220	DC12V DC24V AC110V AC220V	100mA 55mA 25mA 25mA	- Material: PC - Protection ratings with assemble : IP65 - Product size: Ø50 x 50 
	Q50L-FA Amber LED Steady/Flashing Module	Q50L-FA-12 Q50L-FA-24 Q50L-FA-110 Q50L-FA-220	DC12V DC24V AC110V AC220V	100mA 55mA 25mA 25mA	
	Q50L-FG Green LED Steady/Flashing Module	Q50L-FG-12 Q50L-FG-24 Q50L-FG-110 Q50L-FG-220	DC12V DC24V AC110V AC220V	100mA 55mA 25mA 25mA	

(Units : mm)

Layout	Parts Name	Model No	Specification		Common Specifications
			Voltage	Current	
	Q50L-FB Blue LED Steady/Flashing Module	Q50L-FB-12	DC12V	100mA	· Material: PC · Protection ratings with assemble : IP65 · Product size: Ø50 x 50
		Q50L-FB-24	DC24V	55mA	
		Q50L-FB-110	AC110V	25mA	
		Q50L-FB-220	AC220V	25mA	
	Q50L-FC White LED Steady/Flashing Module	Q50L-FC-12	DC12V	100mA	
		Q50L-FC-24	DC24V	55mA	
		Q50L-FC-110	AC110V	25mA	
		Q50L-FC-220	AC220V	25mA	

· LED Strobe Module

(Units : mm)

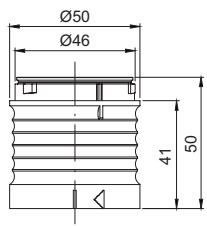
Layout	Parts Name	Model No	Specification		Common Specifications
			Voltage	Current	
	Q50L-SR Red LED Strobe Module	Q50L-SR-12 Q50L-SR-24	DC12V DC24V	110mA 110mA	· Material: PC · Protection ratings with assemble : IP65 · Product size: Ø50 x 50
	Q50L-SA Amber LED Strobe Module	Q50L-SA-12 Q50L-SA-24	DC12V DC24V	110mA 110mA	
	Q50L-SG Green LED Strobe Module	Q50L-SG-12 Q50L-SG-24	DC12V DC24V	110mA 110mA	
	Q50L-SB Blue LED Strobe Module	Q50L-SB-12 Q50L-SB-24	DC12V DC24V	110mA 110mA	
	Q50L-SC White LED Strobe Module	Q50L-SC-12 Q50L-SC-24	DC12V DC24V	110mA 110mA	

· LED Revolving Flashing Module

(Units : mm)

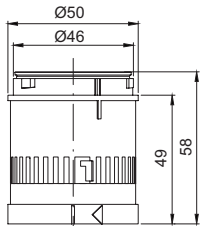
Layout	Parts Name	Model No	Specification		Common Specifications
			Voltage	Current	
	Q50L-RR Red LED Revolving Flashing Module	Q50L-RR-12 Q50L-RR-24	DC12V DC24V	80mA 80mA	· Material: PC · Protection ratings with assemble : IP65 · Product size: Ø50 x 50
	Q50L-RA Amber LED Revolving Flashing Module	Q50L-RA-12 Q50L-RA-24	DC12V DC24V	80mA 80mA	

(Units : mm)

Layout	Parts Name	Model No	Specification		Common Specifications
			Voltage	Current	
	Q50L-RG Green LED Revolving Flashing Module	Q50L-RG-12 Q50L-RG-24	DC12V DC24V	80mA 80mA	- Material: PC - Protection ratings with assemble : IP65 - Product size: Ø50 x 50 
	Q50L-RB Blue LED Revolving Flashing Module	Q50L-RB-12 Q50L-RB-24	DC12V DC24V	80mA 80mA	
	Q50L-RC White LED Revolving Flashing Module	Q50L-RC-12 Q50L-RC-24	DC12V DC24V	80mA 80mA	

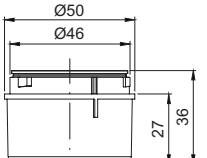
• Buzzer module

(Units : mm)

Layout	Parts Name	Model No	Specification		Common Specifications
			Voltage	Current	
	Q50L-BZ Buzzer module	Q50L-BZ-12 Q50L-BZ-24 Q50L-BZ-110 Q50L-BZ-220	DC12V DC24V AC110V AC220V	30mA 55mA 110mA 130mA	- Material: PC - Protection ratings with assemble: IP54 - Product size: Ø50 x 58 - Volume: Max.90dB 

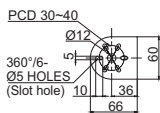
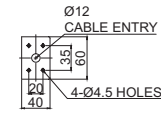
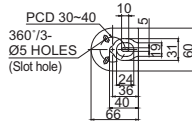
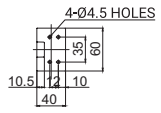
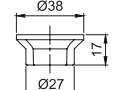
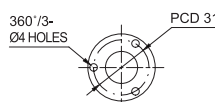
• Base Module

(Units : mm)

Layout	Parts Name	Model No	Common Specifications	
	Pole Mount Base Module Direct Mount Base Module	Q50L-BS	- Material: PC - Protection ratings with assemble: IP65 - Product size: Ø50 x 36 	

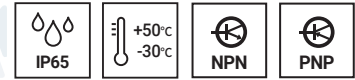
• Mount Bracket Module

(Units : mm)

Layout	Parts Name	Model No	Material	Technical Diagram	
	Wall mount Bracket	TWS45	Steel		
	Wall mount Bracket	TWA45	PC		
	Pole Module	Q50L-PB	PC		

Ø50mm Modular LED Tower Lights

QT50ML



Product consist of cover, LED modules, base module

QT50ML Ø50mm Modular LED Tower Lights, Direct Mount

Model number	Layers	Voltage	Certificates	Weight	Color
QT50ML QT50MLF	1	DC12V	CE	0.10kg	● R-Red
		DC24V		0.10kg	
		AC110V		0.11kg	
		AC220V		0.11kg	
	2	DC12V		0.14kg	● R-Red
		DC24V		0.14kg	
		AC110V		0.15kg	● G-Green
		AC220V		0.15kg	
	3	DC12V		0.19kg	● R-Red
		DC24V		0.19kg	
		AC110V		0.20kg	● A-Amber
		AC220V		0.20kg	
	4	DC12V		0.23kg	● R-Red
		DC24V		0.23kg	
		AC110V		0.24kg	● G-Green
		AC220V		0.24kg	
	5	DC12V		0.27kg	● R-Red
		DC24V		0.27kg	
		AC110V		0.28kg	● G-Green
		AC220V		0.28kg	

※ CE compliant: DC12V, DC24V, AC220V



QT50ML

Beige color

Beige color is available



module configuration

QT50ML QT50MLF	Steady Module Steady/Flashing Module	+	Base Module(BS)
-------------------	---	---	-----------------

Light source current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current(1 layer)	100mA	55mA	25mA	25mA

Wiring Instructions

- LED tower light can be wired by using transistor and External Contact

Customization

- Beige color
- LED Strobe(Model number: QT50MLS)
- LED simulated revolving(Model number: QT50MLR)
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall



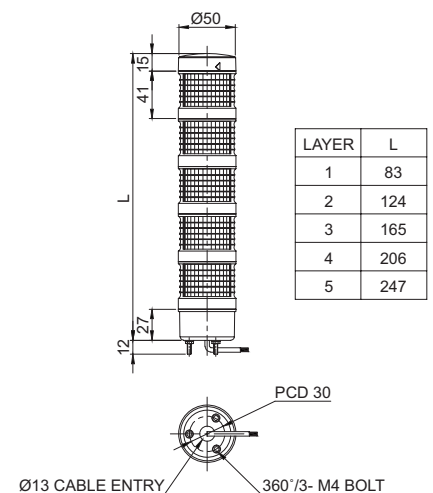
Ordering Specifications

QT50ML	-	3	-	220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QT50ML		1-1 Layer		12-DC12V		● R-Red
QT50MLF		2-2 Layers		24-DC24V		● A-Amber
		3-3 Layers		110-AC110V		● G-Green
		4-4 Layers		220-AC220V		● B-Blue
		5-5 Layers				○ W-White

Technical Diagram

Units : mm

QT50ML



Ø50mm Built-in Buzzer Modular LED Tower Lights

QT50ML-BZ



Product consist of cover, LED modules, buzzer module, base module



QT50ML-BZ Ø50mm Built-in Buzzer Modular LED Tower Lights, Direct Mount



QT50ML-BZ

Beige color

Beige color is available



Model number	Layers	Voltage	Certificates	Weight	Color
QT50ML-BZ QT50MLF-BZ (Max. 90dB)	1	DC12V	CE	0.17kg	● R-Red
		DC24V		0.17kg	
		AC110V		0.18kg	
		AC220V		0.18kg	
	2	DC12V		0.21kg	● R-Red ● G-Green
		DC24V		0.21kg	
		AC110V		0.22kg	
		AC220V		0.22kg	
	3	DC12V		0.25kg	● R-Red ● A-Amber ● G-Green
		DC24V		0.25kg	
		AC110V		0.26kg	
		AC220V		0.26kg	
	4	DC12V		0.30kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		DC24V		0.30kg	
		AC110V		0.31kg	
		AC220V		0.31kg	

※ CE compliant: DC12V, DC24V, AC220V

module configuration

QT50ML QT50MLF	Steady Module Steady/Flashing Module	+	Base Module(BS)	+	Buzzer module(BZ)
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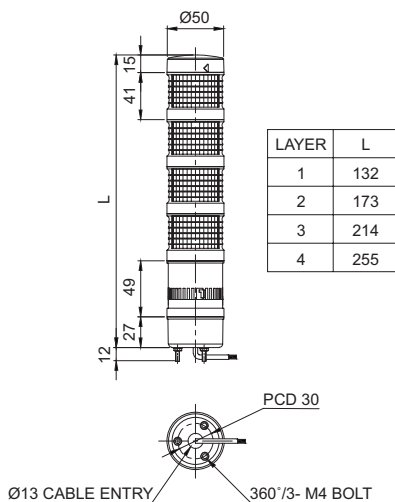
Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current(1 layer)	100mA	55mA	25mA	25mA
Buzzer current	30mA	55mA	110mA	130mA

Technical Diagram

Units : mm

QT50ML-BZ



Wiring Instructions

- LED tower light can be wired by using transistor and External Contact

Customization

- Beige color
- LED Strobe(Model number: QT50MLS-BZ)
- LED simulated revolving(Model number: QT50MLR-BZ)
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall

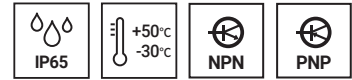


Ordering Specifications

QT50ML-BZ	-	3	-	220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QT50ML-BZ		1-1 Layer		12-DC12V		● R-Red
QT50MLF-BZ		2-2 Layers		24-DC24V		● A-Amber
		3-3 Layers		110-AC110V		● G-Green
		4-4 Layers		220-AC220V		● B-Blue

Ø50mm Modular Multi-Functional LED Tower Lights

QT50L



Product consist of cover, LED modules, base module, and pole module

QT50L Ø50mm Modular LED Tower Lights, Pole Mount

Model number	Layers	Voltage	Certificates	Weight	Color
QT50L QT50LF	1	DC12V	CE	0.25kg	● R-Red
		DC24V		0.25kg	
		AC110V		0.26kg	
		AC220V		0.26kg	
	2	DC12V		0.30kg	● R-Red
		DC24V		0.30kg	
		AC110V		0.31kg	● G-Green
		AC220V		0.31kg	
	3	DC12V		0.34kg	● R-Red
		DC24V		0.34kg	
		AC110V		0.35kg	● A-Amber
		AC220V		0.35kg	
	4	DC12V		0.38kg	● R-Red
		DC24V		0.38kg	
		AC110V		0.39kg	● G-Green
		AC220V		0.39kg	
	5	DC12V		0.43kg	● R-Red
		DC24V		0.43kg	
		AC110V		0.44kg	● A-Amber
		AC220V		0.44kg	
					● G-Green
					● B-Blue
					● W-White

※ CE compliant: DC12V, DC24V, AC220V

module configuration

QT50L QT50LF	Steady Module Steady/Flashing Module	+	Base Module(BS) + Pole Module(PB)
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Light source current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current(1 layer)	100mA	55mA	25mA	25mA

Wiring Instructions

- LED tower light can be wired by using transistor and External Contact

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

QT50L	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QT50L		1-1 Layer		12-DC12V		● R-Red		· None-Standard
QT50LF		2-2 Layers		24-DC24V		● A-Amber		· Bracket
		3-3 Layers		110-AC110V		● G-Green		-LB18 -LW18
		4-4 Layers		220-AC220V		● B-Blue		-QZ18 -SZ18
		5-5 Layers				○ W-White		-QL18 -SL18



QT50L

Beige color

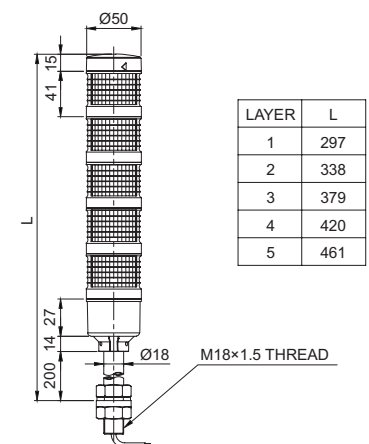
Beige color is available



Technical Diagram

Units : mm

·QT50L



Customization

- Customized pole length available
- Beige color
- LED Strobe(Model number: QT50LS)
- LED simulated revolving (Model number: QT50LR)

Ø50mm Built-in Buzzer Modular Multi-Functional LED Tower Lights

QT50L-BZ



Product consist of cover, LED modules, buzzer module, base module, and pole module



QT50L-BZ

Ø50mm Built-in Buzzer Modular LED Tower Lights, Pole Mount

Model number	Layers	Voltage	Certificates	Weight	Color
QT50L-BZ QT50LF-BZ	1	DC12V	CE	0.32kg	● R-Red
		DC24V		0.32kg	
		AC110V		0.33kg	
		AC220V		0.33kg	
	2	DC12V		0.37kg	● R-Red ● G-Green
		DC24V		0.37kg	
		AC110V		0.38kg	
		AC220V		0.38kg	
	3	DC12V		0.41kg	● R-Red ● A-Amber ● G-Green
		DC24V		0.41kg	
		AC110V		0.42kg	
		AC220V		0.42kg	
	4	DC12V		0.45kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		DC24V		0.45kg	
		AC110V		0.46kg	
		AC220V		0.46kg	

※ CE compliant: DC12V, DC24V, AC220V

module configuration

QT50L QT50LF	Steady Module Steady/Flashing Module	+	Base Module(BS) + Pole Module(PB)	+	Buzzer module(BZ)
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Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current(1 layer)	100mA	55mA	25mA	25mA
Buzzer current	30mA	55mA	110mA	130mA

Wiring Instructions

· LED tower light can be wired by using transistor and External Contact

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

QT50L-BZ	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QT50L-BZ		1-1 Layer		12-DC12V		● R-Red		· None-Standard
QT50LF-BZ		2-2 Layers		24-DC24V		● A-Amber		· Bracket
		3-3 Layers		110-AC110V		● G-Green		-LB18 -LW18
		4-4 Layers		220-AC220V		● B-Blue		-QZ18 -SZ18
								-QL18 -SL18



QT50L-BZ

Beige color

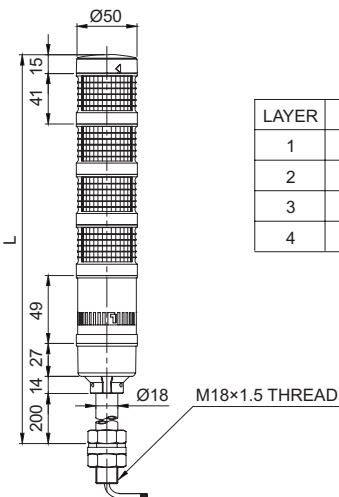
Beige color is available



Technical Diagram

Units : mm

·QT50L-BZ



LAYER	L
1	346
2	387
3	428
4	469

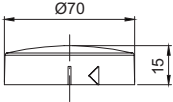
Customization

- Customized pole length available
- Beige color
- LED Strobe(Model number: QT50LS-BZ)
- LED simulated revolving (Model number: QT50LR-BZ)

QT70 Series

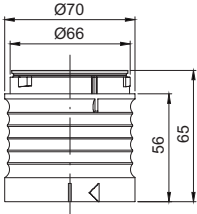
Module Specifications QT70L / QT70ML

(Units : mm)

Layout	Parts Name	Model No	Common Specifications
	QT70L Cover	Q70L-CV	- Material: PC - Protection ratings with assemble: IP65 - Product size: Ø70 x 15 

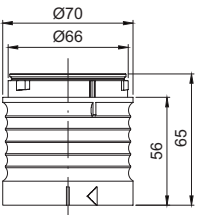
• LED Steady Module

(Units : mm)

Layout	Parts Name	Model No	Specification		Common Specifications
			Voltage	Current	
	Q70L-NR Red LED Steady Module	Q70L-NR-12 Q70L-NR-24 Q70L-NR-110 Q70L-NR-220	DC12V DC24V AC110V AC220V	120mA 55mA 25mA 25mA	- Material: PC - Protection ratings with assemble : IP65 - Product size: Ø70 x 65 
	Q70L-NA Amber LED Steady Module	Q70L-NA-12 Q70L-NA-24 Q70L-NA-110 Q70L-NA-220	DC12V DC24V AC110V AC220V	120mA 55mA 25mA 25mA	
	Q70L-NG Green LED Steady Module	Q70L-NG-12 Q70L-NG-24 Q70L-NG-110 Q70L-NG-220	DC12V DC24V AC110V AC220V	120mA 55mA 25mA 25mA	
	Q70L-NB Blue LED Steady Module	Q70L-NB-12 Q70L-NB-24 Q70L-NB-110 Q70L-NB-220	DC12V DC24V AC110V AC220V	120mA 55mA 25mA 25mA	
	Q70L-NC White LED Steady Module	Q70L-NC-12 Q70L-NC-24 Q70L-NC-110 Q70L-NC-220	DC12V DC24V AC110V AC220V	120mA 55mA 25mA 25mA	

• LED Flashing Module

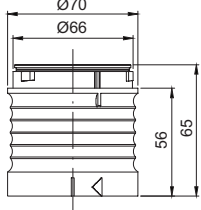
(Units : mm)

Layout	Parts Name	Model No	Specification		Common Specifications
			Voltage	Current	
	Q70L-FR Red LED Steady/Flashing Module	Q70L-FR-12 Q70L-FR-24 Q70L-FR-110 Q70L-FR-220	DC12V DC24V AC110V AC220V	120mA 55mA 25mA 25mA	- Material: PC - Protection ratings with assemble : IP65 - Product size: Ø70 x 65 
	Q70L-FA Amber LED Steady/Flashing Module	Q70L-FA-12 Q70L-FA-24 Q70L-FA-110 Q70L-FA-220	DC12V DC24V AC110V AC220V	120mA 55mA 25mA 25mA	
	Q70L-FG Green LED Steady/Flashing Module	Q70L-FG-12 Q70L-FG-24 Q70L-FG-110 Q70L-FG-220	DC12V DC24V AC110V AC220V	120mA 55mA 25mA 25mA	

Modular Multi-Functional LED Tower Lights

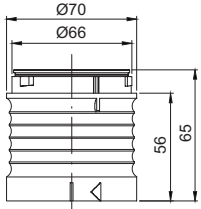
QT70 Series

(Units : mm)

Layout	Parts Name	Model No	Specification		Common Specifications
			Voltage	Current	
	Q70L-FB Blue LED Steady/Flashing Module	Q70L-FB-12	DC12V	120mA	- Material: PC - Protection ratings with assemble: IP65 - Product size: Ø70 x 65 
		Q70L-FB-24	DC24V	55mA	
		Q70L-FB-110	AC110V	25mA	
		Q70L-FB-220	AC220V	25mA	
	Q70L-FC White LED Steady/Flashing Module	Q70L-FC-12	DC12V	120mA	
		Q70L-FC-24	DC24V	55mA	
		Q70L-FC-110	AC110V	25mA	
		Q70L-FC-220	AC220V	25mA	

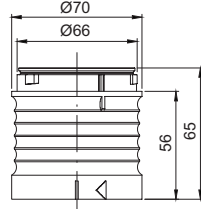
• LED Strobe Module

(Units : mm)

Layout	Parts Name	Model No	Specification		Common Specifications
			Voltage	Current	
	Q70L-SR Red LED Strobe Module	Q70L-SR-12 Q70L-SR-24	DC12V DC24V	120mA 120mA	- Material: PC - Protection ratings with assemble: IP65 - Product size: Ø70 x 65 
	Q70L-SA Amber LED Strobe Module	Q70L-SA-12 Q70L-SA-24	DC12V DC24V	120mA 120mA	
	Q70L-SG Green LED Strobe Module	Q70L-SG-12 Q70L-SG-24	DC12V DC24V	120mA 120mA	
	Q70L-SB Blue LED Strobe Module	Q70L-SB-12 Q70L-SB-24	DC12V DC24V	120mA 120mA	
	Q70L-SC White LED Strobe Module	Q70L-SC-12 Q70L-SC-24	DC12V DC24V	120mA 120mA	

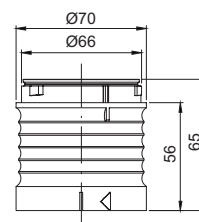
• LED Revolving Flashing module

(Units : mm)

Layout	Parts Name	Model No	Specification		Common Specifications
			Voltage	Current	
	Q70L-RR Red LED Revolving Flashing Module	Q70L-RR-12 Q70L-RR-24	DC12V DC24V	80mA 80mA	- Material: PC - Protection ratings with assemble: IP65 - Product size: Ø70 x 65 
	Q70L-RA Amber LED Revolving Flashing Module	Q70L-RA-12 Q70L-RA-24	DC12V DC24V	80mA 80mA	

(Units : mm)

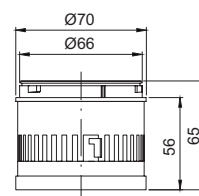
Layout	Parts Name	Model No	Specification		Common Specifications
			Voltage	Current	
	Q70L-RG Green LED Revolving Flashing Module	Q70L-RG-12 Q70L-RG-24	DC12V DC24V	80mA 80mA	· Material: PC · Protection ratings with assemble: IP65 · Product size: Ø70 x 65
	Q70L-RB Blue LED Revolving Flashing Module	Q70L-RB-12 Q70L-RB-24	DC12V DC24V	80mA 80mA	
	Q70L-RC White LED Revolving Flashing Module	Q70L-RC-12 Q70L-RC-24	DC12V DC24V	80mA 80mA	



· Buzzer module

(Units : mm)

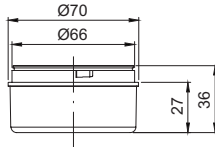
Layout	Parts Name	Model No	Specification		Common Specifications
			Voltage	Current	
	Q70L-BZ Buzzer module	Q70L-BZ-12 Q70L-BZ-24 Q70L-BZ-110 Q70L-BZ-220	DC12V DC24V AC110V AC220V	30mA 55mA 110mA 130mA	· Material: PC · Protection ratings with assemble: IP54 · Product size: Ø70 x 65 · Volume: Max.90dB
	Q70L-BZS Siren Buzzer module	Q70L-BZS-12 Q70L-BZS-24 Q70L-BZS-110 Q70L-BZS-220	DC12V DC24V AC110V AC220V	240mA 150mA 10mA 20mA	



QT70 Series

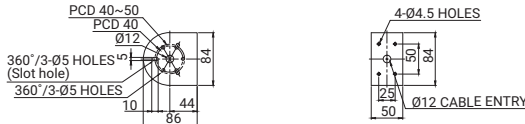
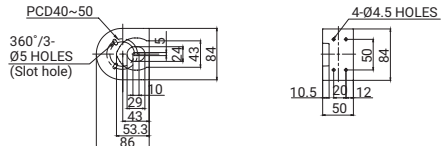
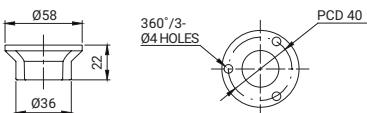
• Base Module

(Units : mm)

Layout	Parts Name	Model No	Common Specifications
	Base Module	Q70L-BS	- Material: PC - Protection ratings with assemble: IP65 - Product size: Ø70 x 36 

• Mount Bracket Module(Built-in Sounder)

(Units : mm)

Layout	Parts Name	Model No	Material	Technical Diagram
	Wall Mount Bracket	TWS80	Steel	
	Wall Mount Bracket	TWA80	PC	
	Pole Module	Q70L-PB	PC	

Ø70mm Modular Multi-Functional LED Tower Lights

QT70ML



Product consist of cover, LED modules, signal sound module, base module

QT70ML Ø70mm Direct Mount Modular LED Tower Lights

Model number	Layers	Voltage	Certificates	Weight	Color
QT70ML QT70MLF	1	DC12V	CE	0.17kg	R-Red
		DC24V		0.17kg	
		AC110V		0.18kg	
		AC220V		0.18kg	
	2	DC12V		0.25kg	R-Red
		DC24V		0.25kg	
		AC110V		0.26kg	G-Green
		AC220V		0.26kg	
	3	DC12V		0.32kg	R-Red
		DC24V		0.32kg	
		AC110V		0.33kg	Y-A-Amber
		AC220V		0.33kg	
	4	DC12V		0.40kg	R-Red
		DC24V		0.40kg	
		AC110V		0.41kg	G-Green
		AC220V		0.41kg	
	5	DC12V		0.47kg	R-Red
		DC24V		0.47kg	
		AC110V		0.48kg	B-Blue
		AC220V		0.48kg	

※ CE compliant: DC12V, DC24V

module configuration

QT70ML QT70MLF	Steady Module Steady/Flashing Module	+	Base Module(BS)
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Light source current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current(1 layer)	120mA	55mA	25mA	25mA

Wiring Instructions

- LED tower light can be wired by using transistor and external contact

Customization

- Beige color
- LED Strobe(Model number: QT70MLS)
- LED simulated revolving(Model number: QT70MLR)
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall



Wall mount bracket TWS80



Wall mount bracket TWA80

Ordering Specifications

QT70ML	-	3	-	220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QT70ML		1-1 Layer		12-DC12V		R-Red
QT70MLF		2-2 Layers		24-DC24V		Y-A-Amber
		3-3 Layers		110-AC110V		G-Green
		4-4 Layers		220-AC220V		B-Blue
		5-5 Layers				W-White



QT70ML

Beige color

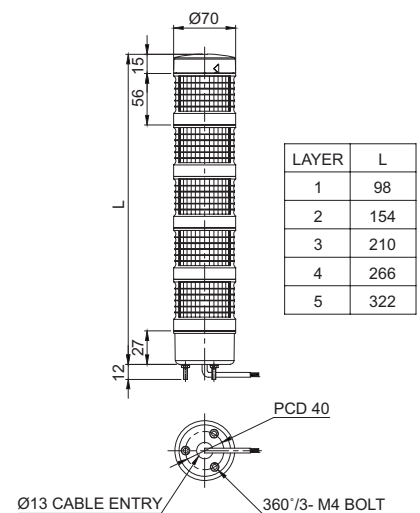
Beige color is available



Technical Diagram

Units : mm

·QT70ML



Ø70mm Multi-Functional Modular LED Tower Lights with Buzzer

QT70ML-BZ



Product consist of cover, LED modules, buzzer module, base module



QT70ML-BZ Ø70mm Direct Mount Modular LED Tower Lights with Buzzer



QT70ML-BZ

Beige color
Beige color is
available



Model number	Layers	Voltage	Certificates	Weight	Color
QT70ML-BZ QT70MLF-BZ (Max. 90dB)	1	DC12V	CE	0.26kg	● R-Red
		DC24V		0.26kg	
		AC110V		0.27kg	
		AC220V		0.27kg	
	2	DC12V		0.34kg	● R-Red ● G-Green
		DC24V		0.34kg	
		AC110V		0.35kg	
		AC220V		0.35kg	
	3	DC12V		0.42kg	● R-Red ● A-Amber ● G-Green
		DC24V		0.42kg	
		AC110V		0.43kg	
		AC220V		0.43kg	
	4	DC12V		0.49kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		DC24V		0.49kg	
		AC110V		0.50kg	
		AC220V		0.50kg	

※ CE compliant: DC12V, DC24V

module configuration

QT70ML QT70MLF	Steady Module Steady/Flashing Module	+	Base Module(BS)	+	Buzzer module(BZ)
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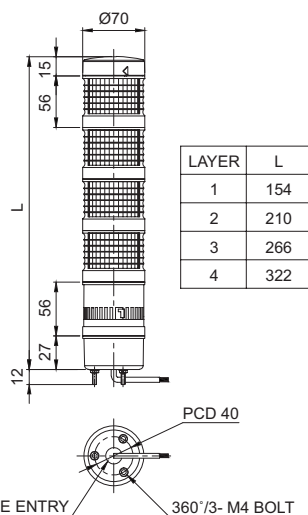
Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current(1 layer)	120mA	55mA	25mA	25mA
Buzzer current	30mA	55mA	110mA	130mA

Technical Diagram

Units : mm

·QT70ML-BZ



Wiring Instructions

- LED tower light can be wired by using transistor and External Contact

Customization

- Beige color
- LED Strobe(Model number : QT70MLS-BZ)
- LED simulated revolving (Model number: QT70MLR-BZ)
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall



Wall mount
bracket
TWS80



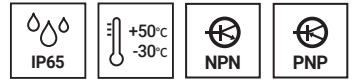
Wall mount
bracket
TWA80

Ordering Specifications

QT70ML-BZ	-	3	-	220	-	RAG
[Model number] QT70ML-BZ QT70MLF-BZ		[Layers] 1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers		[Voltage] 12-DC12V 24-DC24V 110-AC110V 220-AC220V		[Color] ● R-Red ● A-Amber ● G-Green ● B-Blue

Ø70mm Modular Multi-Functional LED Tower Lights

QT70L



Product consist of cover, LED modules, base module, and pole module

QT70L Ø70mm Pole Mount Modular LED Tower Lights

Model number	Layers	Voltage	Certificates	Weight	Color
QT70L QT70LF	1	DC12V	CE	0.41kg	● R-Red
		DC24V		0.41kg	
		AC110V		0.42kg	
		AC220V		0.42kg	
	2	DC12V		0.48kg	● R-Red ● G-Green
		DC24V		0.48kg	
		AC110V		0.49kg	
		AC220V		0.49kg	
	3	DC12V		0.55kg	● R-Red ● A-Amber ● G-Green
		DC24V		0.55kg	
		AC110V		0.56kg	
		AC220V		0.56kg	
	4	DC12V		0.63kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		DC24V		0.63kg	
		AC110V		0.64kg	
		AC220V		0.64kg	
	5	DC12V		0.71kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
		DC24V		0.71kg	
		AC110V		0.72kg	
		AC220V		0.72kg	

※ CE compliant: DC12V, DC24V

module configuration

QT70L QT70LF	Steady Module Steady/Flashing Module	+	Base Module(BS) + Pole Module(PB)
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Light source current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current(1 layer)	120mA	55mA	25mA	25mA

Wiring Instructions

· LED tower light can be wired by using transistor and External Contact

Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

QT70L	-	3	-	24	-	RAG	-	LW24
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QT70L QT70LF		1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		12-DC12V 24-DC24V 110-AC110V 220-AC220V		● R-Red ● A-Amber ● G-Green ● B-Blue		· None-Standard · Bracket · LB24-LW24 · QZ24-SZ24 · QL24-SL24



QT70L

Beige color

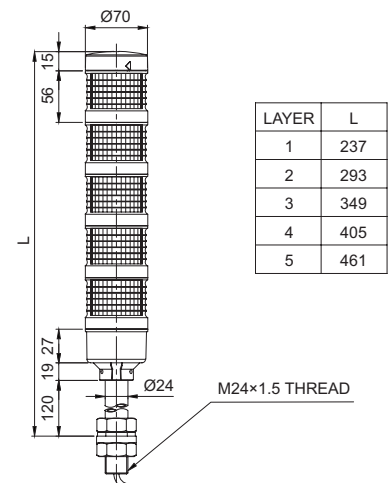
Beige color is available



Technical Diagram

Units : mm

· QT70L



Customization

- Customized pole length available
- Beige color
- LED Strobe(Model number: QT70LS)
- LED simulated revolving (Model number: QT70LR)

Ø70mm Multi-Functional Modular LED Tower Lights with Buzzer

QT70L-BZ



Product consist of cover, LED modules, buzzer module, base module, and pole module

QT70L-BZ Ø70mm Pole Mount Modular LED Tower Lights with Buzzer



QT70L-BZ

Beige color
Beige color is
available



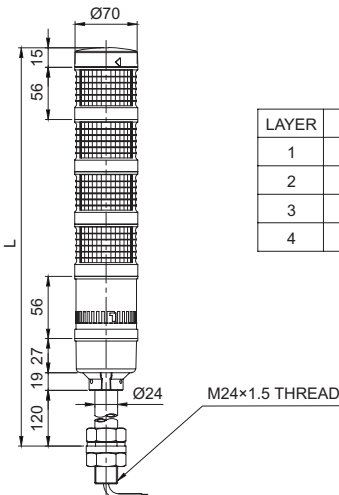
Wiring Instructions

- LED tower light can be wired by using transistor and external contact

Technical Diagram

Units : mm

·QT70L-BZ



Model number	Layers	Voltage	Certificates	Weight	Color
QT70L-BZ QT70LF-BZ (Max. 90dB)	1	DC12V	CE	0.50kg	● R-Red
		DC24V		0.50kg	
		AC110V		0.51kg	
		AC220V		0.51kg	
	2	DC12V		0.58kg	● R-Red ● G-Green
		DC24V		0.88kg	
		AC110V		0.59kg	
		AC220V		0.59kg	
	3	DC12V		0.65kg	● R-Red ● A-Amber ● G-Green
		DC24V		0.65kg	
		AC110V		0.66kg	
		AC220V		0.66kg	
	4	DC12V		0.73kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		DC24V		0.73kg	
		AC110V		0.74kg	
		AC220V		0.74kg	

※ CE compliant: DC12V, DC24V

module configuration

QT70L QT70LF	Steady Module Steady/Flashing Module	+	Base Module(BS) + Pole Module(PB)	+	Buzzer module(BZ)
-----------------	--	---	---	---	-------------------

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V	AC220V
Light source current(1 layer)	120mA	55mA	25mA	25mA
Buzzer current	30mA	55mA	110mA	130mA

Customization

- Customized pole length available
- Beige color
- LED Strobe(Model number: QT70LS-BZ)
- LED simulated revolving(Model number: QT70LR-BZ)

Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

QT70L-BZ	-	3	-	24	-	RAG	-	LW24
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QT70L-BZ		1-1 Layer		12-DC12V		● R-Red		· None-Standard
QT70LF-BZ		2-2 Layers		24-DC24V		● A-Amber		· Bracket
		3-3 Layers		110-AC110V		● G-Green		-LB24 -LW24
		4-4 Layers		220-AC220V		● B-Blue		-QZ24 -SZ24
								-QL24 -SL24

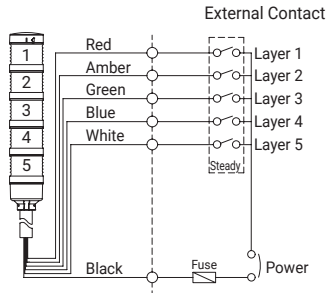
Wiring Instructions(Wiring using External Contact)

- QT Series can be wired by using both External Contact and transistor.
- In case of wiring with External Contacts, refer to the wiring diagrams below according to your product's type and voltage setting.

Wiring instructions

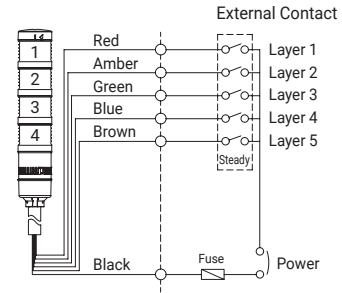
DC/AC standard

QT50ML(F)
QT50MLS(DC only)
QT50MLR(DC only)
QT50L(F)
QT50LS(DC only)
QT50LR(DC only)
QT70ML(F)
QT70MLS(DC only)
QT70MLR(DC only)
QT70L(F)
QT70LS(DC only)
QT70LR(DC only)



DC/AC buzzer

QT50ML(F)-BZ
QT50MLS-BZ(DC only)
QT50MLR-BZ(DC only)
QT50L(F)-BZ
QT50LS-BZ(DC only)
QT50LR-BZ(DC only)
QT70ML(F)-BZ
QT70MLS-BZ(DC only)
QT70MLR-BZ(DC only)
QT70L(F)-BZ
QT70LS-BZ(DC only)
QT70LR-BZ(DC only)



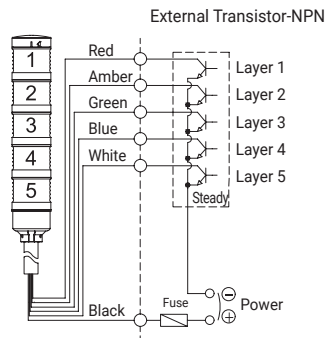
Wiring Instructions(Wiring using transistor)

- In case of wiring by transistor, please make sure if it is NPN type or PNP type. Please carefully follow wiring instruction below.

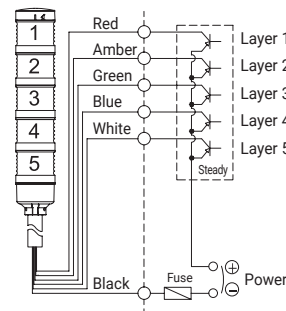
Wiring instructions

DC standard

QT50ML(F)
QT50MLS
QT50MLR
QT50L(F)
QT50LS
QT50LR
QT70ML(F)
QT70MLS
QT70MLR
QT70L(F)
QT70LS
QT70LR

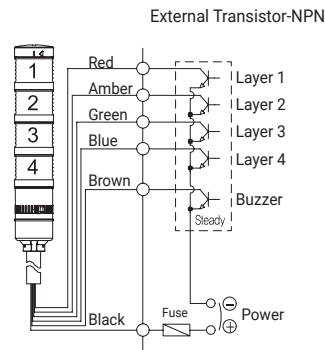


External Transistor-PNP

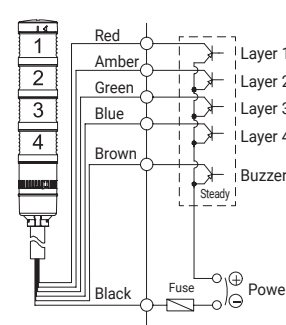


DC buzzer

QT50ML(F)-BZ
QT50MLS-BZ
QT50MLR-BZ
QT50L(F)-BZ
QT50LS-BZ
QT50LR-BZ
QT70ML(F)-BZ
QT70MLS-BZ
QT70MLR-BZ
QT70L(F)-BZ
QT70LS-BZ
QT70LR-BZ



External Transistor-PNP



- DC steady type cable specification: External power/ signal line - UL1007 AWG22(0.3sq) 400mm.
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) × 2C 400mm,
External signal line - UL1007 AWG22(0.3sq) 400mm

Non Sparking Explosion Proof LED Tower Lights

ST45ML-Ex



Non-sparking explosion proof LED tower lights suitable for use in zone 2 hazardous areas



ST45ML-Ex

PRODUCT SPECIFICATION

ST45ML-Ex | STB45ML-Ex

Materials

Lens-PC, Housing-PC, Mounting housing-Al, Cover-PC/Al

Ambient operating temperature $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$

Protection rating IP54

Explosion protection rating

KCs- Ex nR II T6 IP54 (Layer2-3)

NEPSI, CCC -Ex nR IIC T6 Gc (Layer1-5)

KCs - Ex nR II T4 IP54 (Customization, Layer1-5)

- Non- sparking explosion protected high-intensity LED steady tower lights
 - Excellent distance visibility by using a special reflector to arrogate the light from the LED filament
 - Reduced maintenance with use of long-lasting LED light source
 - Lens and housing are made of polycarbonate with excellent durability, suitable for potentially hazardous and explosive environments
 - Can be used for Zone 2 application with explosion proof rating of nR
- ※ Zone2 : Equipment is capable of operating under abnormal high risk environmental conditions for a short duration



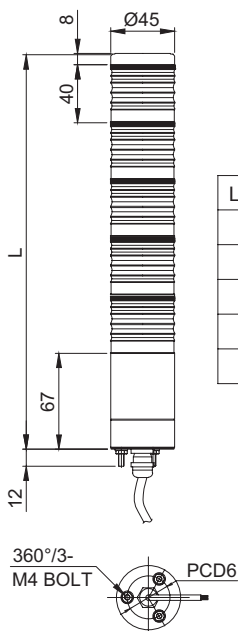
ST45ML-Ex Non-Sparking Explosion Proof LED Tower Light

Model number	Layer	Voltage	Certificates	Weight	Color
ST45ML-Ex ST45ML	1	DC12V		0.19kg	● R-Red
		DC24V		0.19kg	
	2	DC12V		0.24kg	● R-Red
		DC24V		0.24kg	● G-Green
	3	DC12V		0.29kg	● R-Red
		DC24V		0.29kg	● A-Amber ● G-Green
	4	DC12V		0.32kg	● R-Red ● A-Amber ● G-Green
		DC24V		0.32kg	● B-Blue
	5	DC12V		0.36kg	● R-Red ● A-Amber ● G-Green
		DC24V		0.36kg	● B-Blue ○ W-White

Technical Diagram

Units: mm

• ST45ML-Ex



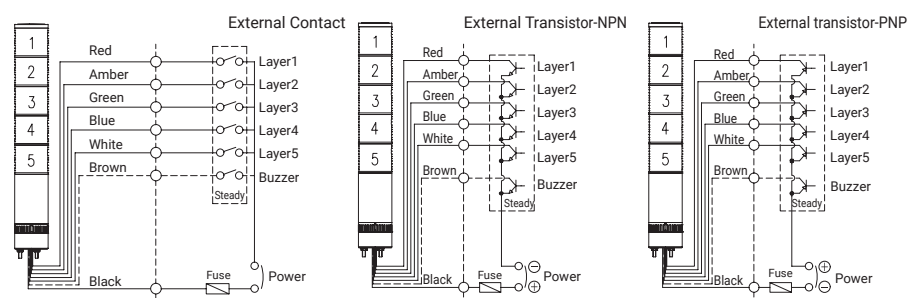
LAYER	L
1	115
2	155
3	195
4	235
5	275

Light source current(based on 1 layer)

Voltage	DC12V	DC24V
Light source current(1 layer)	24mA	12mA

Wiring Instructions

• ST45ML-Ex-DC / STB45ML-Ex-DC



Built-in Buzzer Non-Sparking Explosion Proof Tower Lights

STB45ML-Ex



Non-sparking explosion proof LED tower lights suitable for use in zone 2 hazardous areas

STB45ML-Ex Built-in Buzzer Non-Sparking Explosion Proof Tower Lights

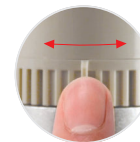
Model number	Layer	Voltage	Certificates	Weight	Color
STB45ML-Ex STB45ML	1	DC12V	CCC	0.26kg	● R-Red
		DC24V	Ex nR IIC T6 Gc	0.26kg	
	2	DC12V	CCC	0.30kg	● R-Red
		DC24V	CCC	0.30kg	● G-Green
	3	DC12V	Ex nR IIC T6 Gc	0.34kg	● R-Red
		DC24V	CCC	0.34kg	● A-Amber ● G-Green
	4	DC12V		0.38kg	● R-Red ● A-Amber ● G-Green
		DC24V	CCC	0.38kg	● B-Blue
	5	DC12V	Ex nR IIC T6 Gc	0.42kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		DC24V		0.42kg	○ W-White

· Sound volume adjustable by volume control lever, Sound volume: Max.83dB at 1m

※ CE compliant: DC24V



STB45ML-Ex



Sound volume adjustable by volume control lever

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V
Light source current(1 layer)	20mA	10mA
Buzzer current	20mA	30mA

Ordering Specification

· KCs Certificates - Ex nR II T6

STB45ML3	-	Ex	-	12	-	R	-	KCs
[Model number]		[Explosion Proof]		[Voltage]		[Color]		[Certificates]
ST45ML2(2 layers)				12-DC12V		● R-Red		KCs
STB45ML2(2 layers)				24-DC24V		● G-Green		
ST45ML3(3 layers)						● R-Red		
STB45ML3(3 layers)						● A-Amber ● G-Green		

· CCC Certificates - Ex nR IIC T6 Gc

STB45ML	-	3	-	12	-	R	-	CCC/NEPSI
[Model number]		[Layer]		[Voltage]		[Color]		[Certificates]
ST45ML		1-1Layer		12-DC12V		● R-Red		CCC(NEPSI)
STB45ML		2-2Layers		24-DC24V		● A-Amber		
		3-3Layers				● G-Green		
		4-4Layers				● B-Blue		
		5-5Layers				○ W-White		

Technical Diagram

Units: mm

· STB45ML-Ex



LAYER	L
1	149
2	189
3	229
4	269
5	309

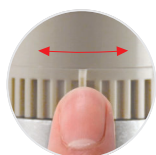
Cautions in use of explosion proof tower lights

· Contact structure of an explosion proof product must be a qualified part we provide, please do not disassemble, assemble, modify or repair arbitrarily.

STB45ML-NEC



STB45ML-NEC



Sound volume adjustable by volume control lever

PRODUCT SPECIFICATION

STB45ML-NEC

Materials

Lens-PC, Housing-PC, Mounting housing-Al, Upper cover-Al

Ambient operating temperature $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$

Sound volume Max.83dB at 1m

Protection rating IP54

Explosion protection rating

Class I, Division 2 Groups A,B,C,D T6

Class I, Zone 2, AEX ec IIC T6 Gc

Certificates INTERTEK(NRTL), IECEx, CE

- High brightness LED steady type with NRTL certified Increased safety explosion Proof LED tower lights
- NRTL(Nationally Recognized Testing Laboratory) is a system for product safety testing and certification, this product can be installed and used not only in the United States but also in Canada.
- Excellent distance visibility by using a special reflector to arrogate the light from the LED filament
- Reduced maintenance cost with use of long-lasting LED light source
- Lens and housing are made of polycarbonate with excellent durability, suitable for potentially hazardous and explosive environments

STB45ML-NEC Built-in Buzzer Increased Safety Explosion Proof LED Tower Lights

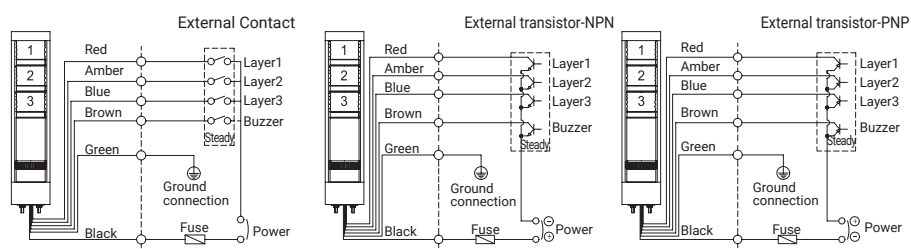
Model number	Layer	Voltage	Certificates	Weight	Color
STB45ML-NEC	3	DC24V	  	0.40kg	● R-Red ● A-Amber ● G-Green

Light source/buzzer current(based on 1 layer)

Voltage	DC24V
Light source current(1 layer)	12mA
Buzzer current	40mA

Wiring Instructions

• STB45ML-NEC-DC

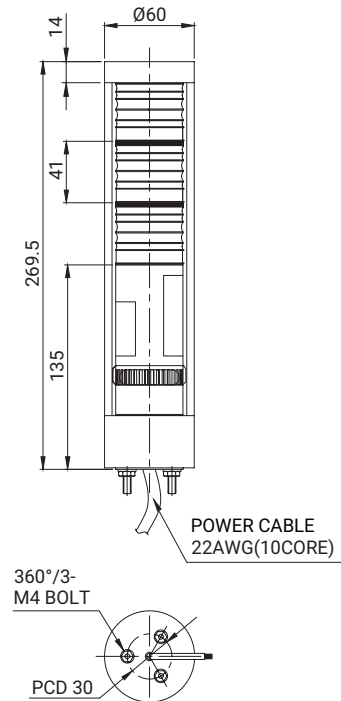




Technical Diagram

Units: mm

·STB45ML-NEC



Ordering Specification

STB45ML-NEC	-	3	-	24	-	R	-	IECEX
[Model number]		[Layer]		[Voltage]		[Color]		[Certificates]
STB45ML-NEC		3-3Layers		24-DC24V		R-Red A-Amber G-Green		INTERTEK(NRTL) IECEX

Cautions in use of explosion proof tower lights

- Contact structure of an explosion proof product must be a qualified part we provide, please do not disassemble, assemble, modify or repair arbitrarily.

QTEX Series

Explosion proof LED tower lights with flame proof housing



QTEX Self mount



QTEX Wall mount

PRODUCT SPECIFICATION

QTEX | QTEXB

Materials

Lens-Tempered glass, Filter Lens-AS, Housing-Al,
Reflector-Heat resistant ABS

Ambient operating temperature $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$

Sound volume Max.90dB at 1m(QTEXB)

Explosion protection rating

IECEX - Ex db II C T6 Gb, IP66

Ex tb IIIC T85°C Db, IP66

ATEX - EX II 2G Ex db II C T6 Gb, IP66

EX II 2D Ex tb IIIC T85°C Db, IP66

KCs - Ex d II C T6, IP66

Certificates IECEX, ATEX, KCs, TIIS(QTEXB only)

Cable entry 3/4" NPT 2WAY

- Explosion proof LED tower lights with Ex d IIC rating can be used in explosive gas environments
- Excellent distance visibility by using a special reflector to aggregate the light from the LED filament
- Ø80 LED tower light mounted inside the flame proof housing
- Aluminum housing provides excellent durability
- Long-lasting high intensity LED light source
- Terminal box located inside the housing for easy power wiring
- Direct mount type and wall mount type available depending on application needs.

QTEX Explosion Proof LED Tower Lights with Flame Proof Housing

Model number	Layer	Voltage	Certificates	Weight	Color
QTEX (Steady/Flashing)	1	DC12V	  	4.01kg	● R-Red
		DC24V		4.01kg	
		AC95V-230V		4.02kg	
	2	DC12V		4.15kg	● R-Red ● A-Amber ● G-Green
		DC24V		4.15kg	
		AC95V-230V		4.16kg	
	3	DC12V		4.31kg	● R-Red ● A-Amber ● G-Green
		DC24V		4.31kg	
		AC95V-230V		4.32kg	
	4	DC12V		4.46kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		DC24V		4.46kg	
		AC95V-230V		4.47kg	
	5	DC12V		4.61kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
		DC24V		4.61kg	
		AC95V-230V		4.62kg	

Light source current(based on 1 layer)

Voltage	DC12V	DC24V	AC95V-230V
Light source current(1 layer)	80mA	60mA	Max.55mA



QTEXB Built-in Siren Buzzer Type Explosion Proof LED Tower Lights with Flame Proof Housing

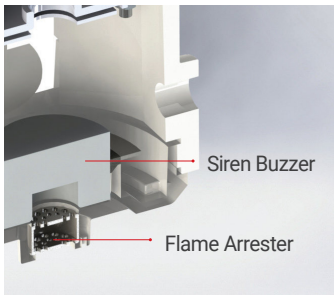
Model number	Layer	Voltage	Certificates	Weight	Color
QTEXB (Steady/Flashing)	1	DC12V	 	4.11kg	● R-Red
		DC24V		4.11kg	
		AC95V-230V		4.12kg	
	2	DC12V		4.25kg	● R-Red
		DC24V		4.25kg	● A-Amber
		AC95V-230V		4.26kg	● G-Green
	3	DC12V		4.41kg	● R-Red
		DC24V		4.41kg	● A-Amber
		AC95V-230V		4.42kg	● G-Green
	4	DC12V		4.56kg	● R-Red
		DC24V		4.56kg	● A-Amber
		AC95V-230V		4.57kg	● B-Blue
	5	DC12V		4.71kg	● R-Red
		DC24V		4.71kg	● A-Amber
		AC95V-230V		4.72kg	● G-Green ● B-Blue ○ W-White

- Explosion proof LED tower lights with visual & audible signal that can be used in hazardous environments
- Sound tone & volume: Siren buzzer, Max.90dB at 1m

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC95V-230V
Light source current(1 layer)	80mA	60mA	Max.55mA
Buzzer current	60mA	120mA	Max.80mA

Explosion proof structure for buzzer model



· FLAME ARRESTER

A flame arrester(also called a deflagration arrester) functions by absorbing the heat from a flame front traveling at sub-sonic velocities, thus dropping the burning gas/air mixture below its auto-ignition temperature: consequently, the flame cannot survive. The heat is absorbed through channels (passages) designed into an element.



QTEXB Self mount



QTEXB Wall mount

Ordering Specification

QTEX	-	3	-	12	-	RAG	-	IECEx
[Model number]		[Layer]		[Voltage]		[Color]		[Certificates]
QTEX		1-1Layer		12-DC12V		● R-Red		IECEx
QTEXB		2-2Layers		24-DC24V		● A-Amber		ATEX
		3-3Layers		95/230-AC95V-230V		● G-Green		KCs
		4-4Layers				● B-Blue		TIIS(QTEXB only)
		5-5Layers				○ W-White		

Customization

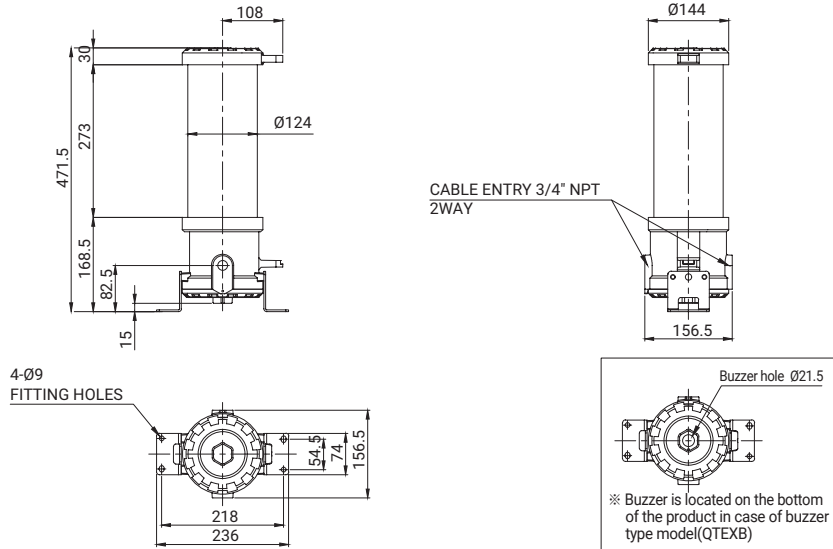
- Explosion proof cable gland attached type available (Standard type does not come with explosion proof cable gland)
- Cable entry 1/2"NPT, M20X1.5, M25X1.5, 1/2"PF(KCs only), 3/4"PF(KCs only)

QTEX Series

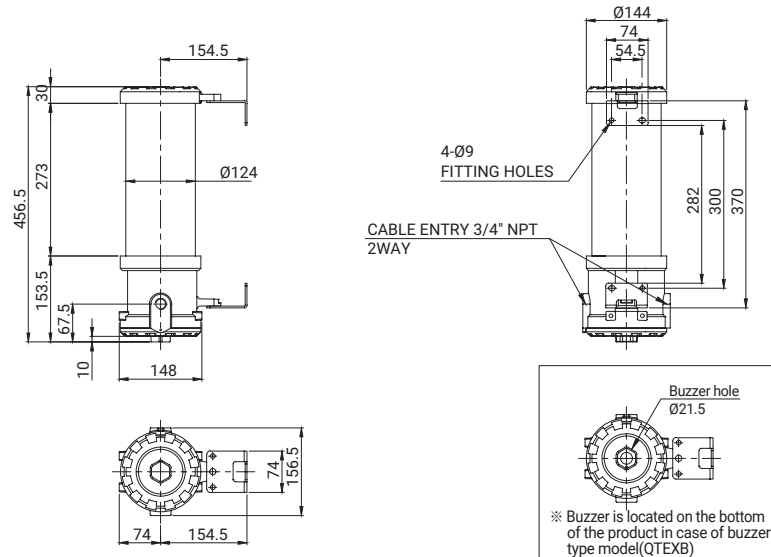
Technical Diagram

Units: mm

· QTEX / QTEXB-Self mount



· QTEX / QTEXB-Wall mount



Cautions in using explosion proof tower lights

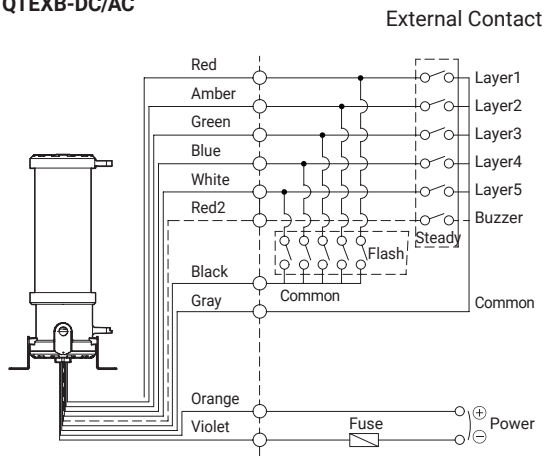
- Explosion proof products should be maintained by explosion proof regulation, please do not disassemble, assemble, modify or repair arbitrarily. In case disassembly is required for wiring or repair, structures such as the contact parts should maintain the same initial condition that we provided.
- Cable gland must be used in explosion proof certified products which satisfy the T6 temperature rating and IP66 protection rating.

Wiring Instructions

- QTEX / QTEXB wiring with transistors and External Contacts.
- In case of wiring with transistors, please use PNP transistors and wiring exactly following below technical diagram.

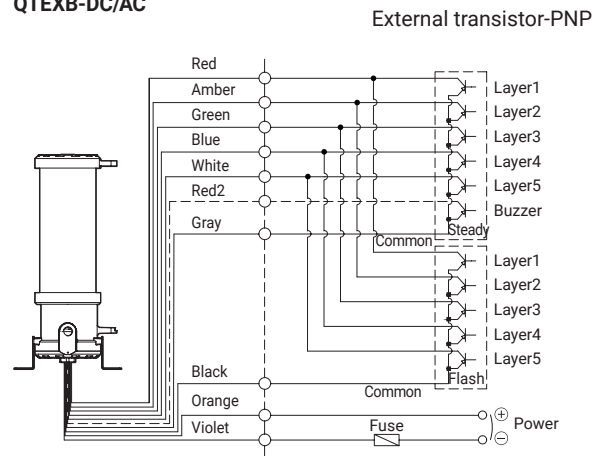
External Contacts type

QTEX-DC/AC
QTEXB-DC/AC

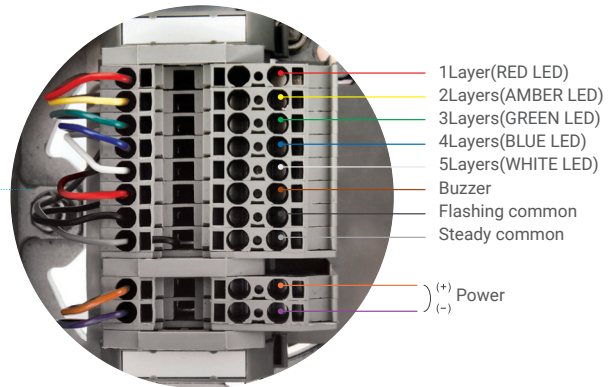


Transistor type

QTEX-DC/AC
QTEXB-DC/AC



Terminal Wiring Information



QTEX series consists of a blocked terminal which is convenient for internal wiring of the terminal box. Please refer to technical diagram for detailed Wiring Instructions.

Flame and Dust Ignition Proof Slim LED Signal Tower Light

QST50-Ex



QST50-Ex

PRODUCT SPECIFICATION

QST50-Ex | QST50B-Ex

Materials

Lens-PC, Diffusion lens-PC, Housing-Al, Cover-Al

Ambient operating temperature

-40°C ≤ Tamb ≤ +60°C

Explosion protection rating

IECEEx - Ex db IIC T6 Gb

Ex tb IIIC T85°C Db

ATEX - Ex db IIC T6 Gb

Ex tb IIIC T85°C Db

KCs - Ex db IIC T6 Gb, IP66/IP67

Certificates IECEEx, ATEX, KCs, NEPSI, CCC

Sound volume Max.90dB at 1m

Housing standard color Silver

Cable entry M20xP1.5, 1/2"NPT

Flashing rate 60-80 flashes/min

- Ex db IIC T6 Gb rated flame/dust ignition proof LED tower light for use in explosive gas areas
- Excellent long-distance visibility by applying a special light diffusion tube that condenses LED light
- Aluminum housing provides excellent durability
- Semi-permanent service life with long-lasting LED light source



QST50-Ex Flame/Dust Ignition Proof Slim LED Signal Tower Light

Model number	Layer	Voltage	Certificates	Weight	Color
QST50-Ex	1	DC24V		1.13kg	R-Red
		AC110V-230V			
	2	DC24V			R-Red
		AC110V-230V			G-Green
	3	DC24V			R-Red
		AC110V-230V			A-Amber
	4	DC24V			G-Green
		AC110V-230V			B-Blue
	5	DC24V			R-Red
		AC110V-230V			A-Amber
					G-Green
					B-Blue
					W-White

Light source current(based on 1 layer)

Voltage	DC24V	AC110V-230V
Light source current(1 layer)	75mA	Max.55mA

Ordering Specification

QST50-Ex	-	5	-	24	-	RAGBW	-	IECEEx
[Model number]		[Layer]		[Voltage]		[Color]		[Certificates]
QST50-Ex		1-1Layer		24-DC24V		R-Red		IECEEx
		2-2Layers		110/230-AC110V-230V		A-Amber		ATEX
		3-3Layers				G-Green		KCs
		4-4Layers				B-Blue		CCC(NEPSI)
		5-5Layers				W-White		

Flame/Dust Ignition Proof Slim LED Signal Tower Light with Built-in Buzzer

QST50B-Ex



QST50B-Ex Flame/Dust Ignition Proof Slim LED Signal Tower Light with Built-in Buzzer

Model number	Layer	Voltage	Certificates	Weight	Color
QST50B-Ex	1	DC24V		1.30kg	R-Red
		AC110V-230V			
	2	DC24V			R-Red
		AC110V-230V			G-Green
	3	DC24V			R-Red
		AC110V-230V			A-Amber G-Green
	4	DC24V			R-Red A-Amber G-Green B-Blue
		AC110V-230V			
	5	DC24V			R-Red A-Amber G-Green B-Blue W-White
		AC110V-230V			

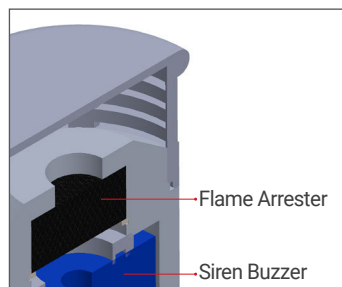


QST50B-Ex

Light source/buzzer current(based on 1 layer)

Voltage	DC24V	AC110V-230V
Light source current(1 layer)	75mA	Max.55mA
Buzzer current	50mA	Max.40mA

Explosion proof structure for buzzer model



· FLAME ARRESTER

A flame arrester(also called a deflagration arrester) functions by absorbing the heat from a flame front traveling at sub-sonic velocities, thus dropping the burning gas/air mixture below its auto-ignition temperature: consequently, the flame cannot survive. The heat is absorbed through channels (passages) designed into an element.

Ordering Specification

QST50B-Ex	-	5	-	24	-	RAGBW	-	IECEx
[Model number] QST50B-Ex		[Layer] 1-1Layer 2-2Layers 3-3Layers 4-4Layers 5-5Layers		[Voltage] 24-DC24V 110/230-AC110V-230V		[Color] ● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White		[Certificates] IECEx ATEX KCs CCC(NEPSI)

Flame/Dust Ignition Proof Slim LED Signal Tower Light with Terminal Block

QST50T-Ex



QST50T-Ex

PRODUCT SPECIFICATION

QST50T-Ex | QST50BT-Ex

Materials

Lens-PC, Light diffusion Lens-PC, Housing-Al, Cover-Al

Ambient operating temperature $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$

Sound volume Max.90dB at 1m(Built-in buzzer type)

Explosion protection rating

IECEX - Ex db IIC T6 Gb

Ex tb IIIC T85°C Db

ATEX - Ex db IIC T6 Gb

Ex tb IIIC T85°C Db

KCs - Ex db IIC T6 Gb, IP66/IP67

Certificates IECEX, ATEX, KCs, NEPSI, CCC

Sound volume Max.90dB at 1m

Housing standard color Silver

Cable entry M20xP1.5, 1/2"NPT

Flashing rate 60-80 flashes/min

- Ex db IIC T6 Gb rated flame/dust ignition proof LED tower light for use in explosive gas areas
- Excellent long-distance visibility by applying a special light diffusion tube that condenses LED light
- Features superior durability with aluminum housing
- Semi-permanent service life with long-lasting LED light source
- Terminal block located inside the housing for easy power wiring



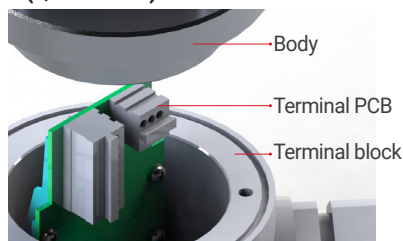
QST50T-Ex Flame/Dust Ignition Proof Slim LED Signal Tower Light with Terminal Block

Model number	Layer	Voltage	Certificates	Weight	Color
QST50T-Ex	1	DC24V		1.77Kg	● R-Red
		AC110V-230V			
	2	DC24V			● R-Red
		AC110V-230V			● G-Green
	3	DC24V			● R-Red
		AC110V-230V			● A-Amber
	4	DC24V			● G-Green
		AC110V-230V			● B-Blue
	5	DC24V			● R-Red
		AC110V-230V			● A-Amber

Light source current(based on 1 layer)

Voltage	DC24V	AC110V-230V
Light source current(1 layer)	75mA	Max.55mA

Terminal Box Wiring Instructions (QST50T-Ex)

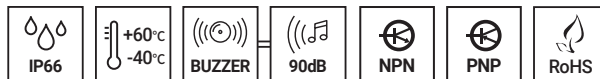


Ordering Specification

QST50T-Ex	-	5	-	24	-	RAGBW	-	IECEX
[Model number]		[Layer]		[Voltage]		[Color]		[Certificates]
QST50T-Ex		1-1Layer		24-DC24V		● R-Red		IECEX
		2-2Layers		110/230-AC110V-230V		● A-Amber		ATEX
		3-3Layers				● G-Green		KCs
		4-4Layers				● B-Blue		CCC(NEPSI)
		5-5Layers				○ W-White		

Flame/Dust Ignition Proof Slim LED Signal Tower Light with Built-in Buzzer and Terminal Block

QST50BT-Ex



QST50BT-Ex Flame/Dust Ignition Proof Slim LED Tower Light with Built-in Buzzer & Terminal Block

Model number	Layer	Voltage	Certificates	Weight	Color
QST50BT-Ex	1	DC24V		1.93Kg	R-Red
		AC110V-230V			
	2	DC24V			R-Red
		AC110V-230V			G-Green
	3	DC24V			R-Red
		AC110V-230V			A-Amber G-Green
	4	DC24V			R-Red
		AC110V-230V			A-Amber G-Green B-Blue
	5	DC24V			R-Red
		AC110V-230V			A-Amber G-Green B-Blue W-White

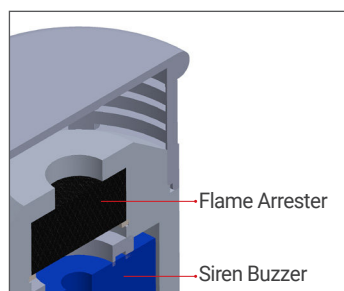


QST50BT-Ex

Light source/buzzer current(based on 1 layer)

Voltage	DC24V	AC110V-230V
Light source current(1 layer)	75mA	Max.55mA
Buzzer current	50mA	Max.40mA

Explosion proof structure for buzzer model



· FLAME ARRESTER

A flame arrester(also called a deflagration arrester) functions by absorbing the heat from a flame front traveling at sub-sonic velocities, thus dropping the burning gas/air mixture below its auto-ignition temperature: consequently, the flame cannot survive. The heat is absorbed through channels (passages) designed into an element.

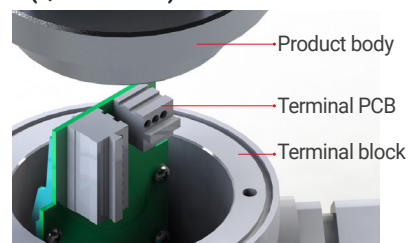
Customization

- Explosion proof cable gland attached type available(Standard type does not come with explosion proof cable gland)
- Cable entry size 3/4"NPT
- Explosion Proof Certification cable gland

Ordering Specification

QST50BT-Ex	5	24	RAGBW	IECEx
[Model number]	[Layer]	[Voltage]	[Color]	[Certificates]
QST50BT-Ex	1-1Layer 2-2Layers 3-3Layers 4-4Layers 5-5Layers	24-DC24V 110/230-AC110V-230V	R-Red A-Amber G-Green B-Blue W-White	IECEx ATEX KCs CCC(NEPSI)

Terminal Box Wiring Instructions (QST50BT-Ex)

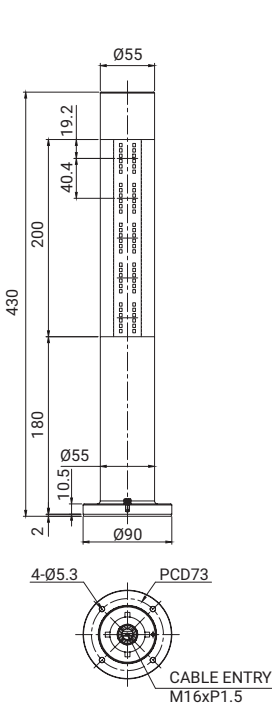


QST50-Ex Series

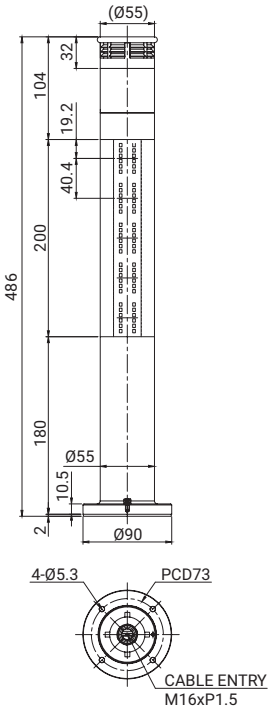
Technical Diagram

Units: mm

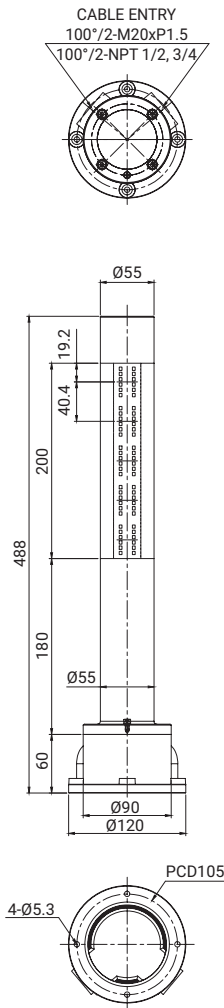
·QST50-Ex-5: DC/AC



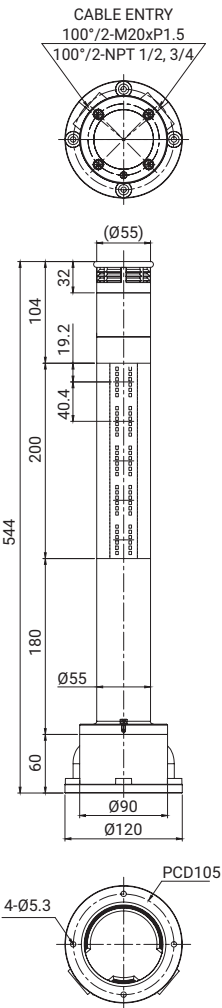
·QST50B-Ex-5: DC/AC



·QST50T-Ex-5: DC/AC



·QST50BT-Ex-5: DC/AC

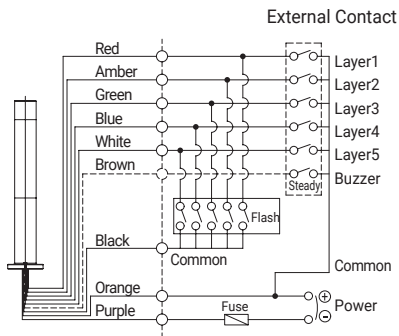


Wiring Instructions

- QST50-Ex Series can be wired with either External Contact or transistor.
- In case of wiring by transistor, please make sure if it is NPN type or PNP type. Please follow wiring instructions below.

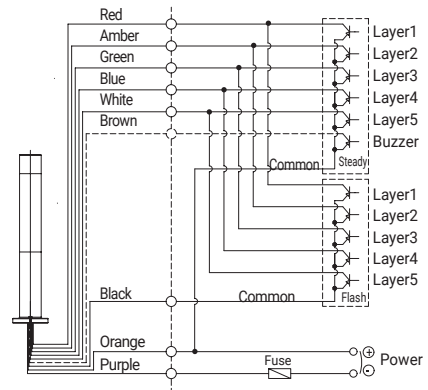
External Contact

DC
Steady/Flashing

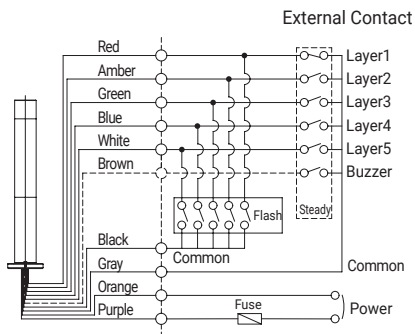


Transistor

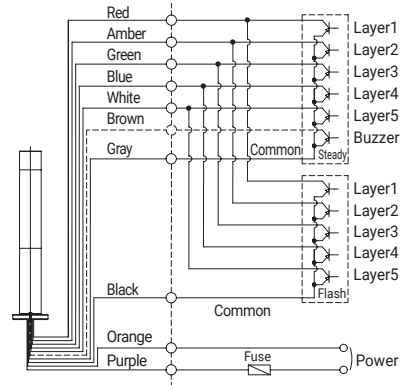
External transistor-PNP



AC
Steady/Flashing



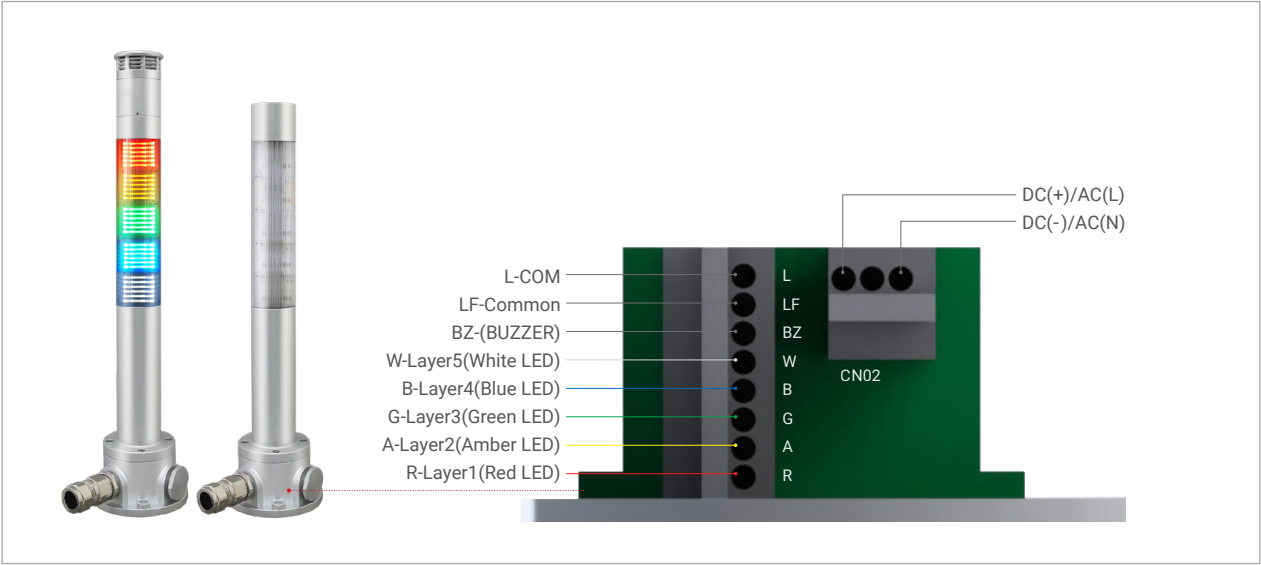
External transistor-PNP



QST50-Ex Series



Terminal Wiring Information



QTG60(M)L-WV

Modular LED Signal Tower Lights with 8 channels custom voice

PRODUCT SPECIFICATION

QTG60(M)L-WV

Materials Lens-PC, Housing-ABS, Pole-Al
Ambient operating temperature -30°C to +50°C
Sound volume Max. 85dB at 1m
Protection rating IP23
Certificates CE
Compliant with RoHS directive

- Modular steady type signal tower lights
- Excellent visibility from a distance with the use of a special color diffusing lens
- The addition of modules and change in color arrangement can be achieved without the use of tools by using the Lock-type structure
- QTGA type offers a nifty integrated lens and cover for a simple aesthetically pleasing product
- A variety of Mounting bracket selections for the pole mount type to fit your location and mounting needs
- Transistors can be connected and can be operated on PLC directly
- Can be selected one sound tone among a variety of 31 available tones
- Each channel's sum of the sound tone length is 80 seconds
- Sampling rate: 16KHz



Each modular color lens can be added without additional tools



QTG60(M)L-WV model uses a special contact structure for stable operation, the lens modules lock into place by rotating the modular structures together. This allows for easy changes to the color arrangement without any tools. Additional modules can be added.

WV-Voice alarm with 8 tones



Voice alarm with 8 tones can be configured in accordance with working environment. Please refer to [Sound tone and combination for standard product] on this catalogue for detailed sound tone specification

The input method of built-in sound type

	1	2	3	4	5
ON	☐	☐	☐	☐	☐
OFF	☐	☐	☐	☐	☐
No.	1	2	3	4	5
0	0	0	0	0	0
1	0	0	0	0	1
2	0	0	0	1	0
:	:	:	:	:	:
31	1	1	1	1	1

Select from 31 pre-recorded output sound options by using a combination of the 5 channel input switches.

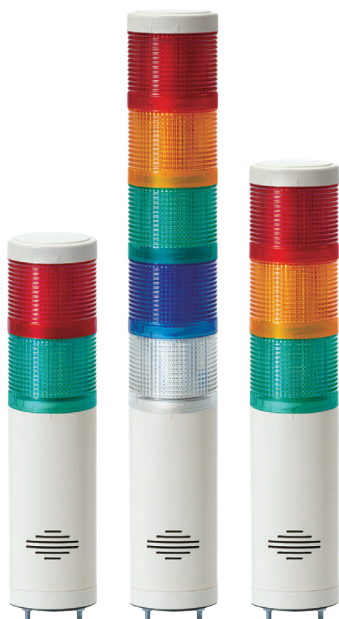
The binary input method allows you to express each of the 31 alarm sound signals with a "0" or "1" by switching the 5 channels on and off as shown in the table.

1. Voice messages are pre-recorded and provided from factory upon user's request
2. Each channel has recording space for 16 sec
3. When only one channel is used, maximum recordable space is 80 sec.



- 1 **Integrated cover and lens mode**
 QTG60(M)L-WV the sleek lens cover model is made of one piece for a simple unified look.
- 2 **Can select from a variety of Mounting brackets option to fit your application needs and build environment**
 There are a variety of Mounting bracket options available depending on cost and installation requirements.

QTG60ML-WV / QTG60L-WV



QTG60ML-WV Series

QTG60ML-WV Ø60mm Pole Mount Type, LED Steady Type

Model number	Layers	Voltage	Sound Pattern and Volume	Certificates	Weight	Color
QTG60ML-WV Steady	1	DC24V	31 Customizable voices: 80dB-85dB	CE	0.38kg	● R-Red
	2	DC24V			0.43kg	● R-Red ● G-Green
	3	DC24V			0.48kg	● R-Red ● A-Amber ● G-Green
	4	DC24V			0.53kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC24V			0.58kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

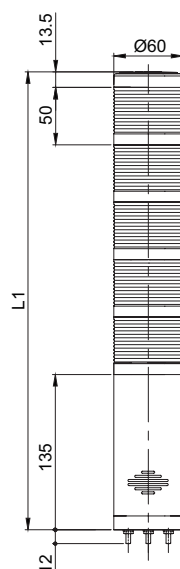
※ In case of customized WV 31 tone type, there may be difference of volume depending on user's audio file type.

Light source/signal sound current (based on 1 layer)

Voltage	DC24V
Light source current(1 layer)	70mA
Signal sound current	160mA

Technical Diagram

Units: mm



LAYER	L1
1	199
2	249
3	299
4	349
5	399

Wiring Instructions

- External signal line
 - UL1007 AWG22(0.3sq) 400m
- External power line
 - UL1015 AWG18(0.75sq)×2C 400mm

Customization

- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount



Wall mount bracket TWS45



Wall mount bracket TWA45

Ordering Specifications

QTG60ML-WV	-	3	-	24	-	RAG
[Model number] QTG60ML-WV		[Layers] 1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		[Voltage] 24-DC24V		[Color] ● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White



QGT60L-WV Ø60mm Pole Mount Type, LED Steady Type

Model number	Layers	Voltage	Sound Pattern and Volume	Certificates	Weight	Color
QGT60L-WV Steady	1	DC24V	31 Customizable voices: 80dB-85dB	CE	0.53kg	R-Red
	2	DC24V			0.58kg	R-Red G-Green
	3	DC24V			0.63kg	R-Red A-Amber G-Green
	4	DC24V			0.68kg	R-Red A-Amber G-Green B-Blue
	5	DC24V			0.73kg	R-Red A-Amber G-Green B-Blue W-White



QGT60L-WV Series

※ In case of customized WV 31 tone type, there may be difference of volume depending on user's audio file type.

Light source/signal sound current (based on 1 layer)

	Voltage	DC24V
Light source current(1 layer)		70mA
Signal sound current		160mA

Wiring Instructions

- External signal line - UL1007 AWG22(0.3sq) 400m
- External power line - UL1015 AWG18(0.75sq)×2C 400mm

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

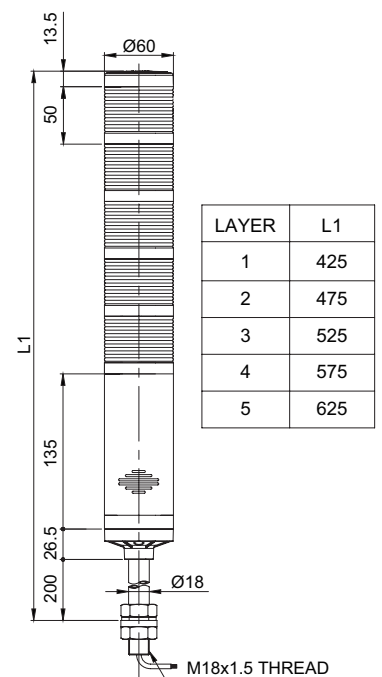
Ordering Specifications

QGT60L-WV	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QGT60L-WV		1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		24-DC24V		R-Red A-Amber G-Green B-Blue W-White		None-Standard Bracket LB18-LW18 QZ18-SZ18 QL18-SL18

Technical Diagram

Units: mm

QGT60L-WV



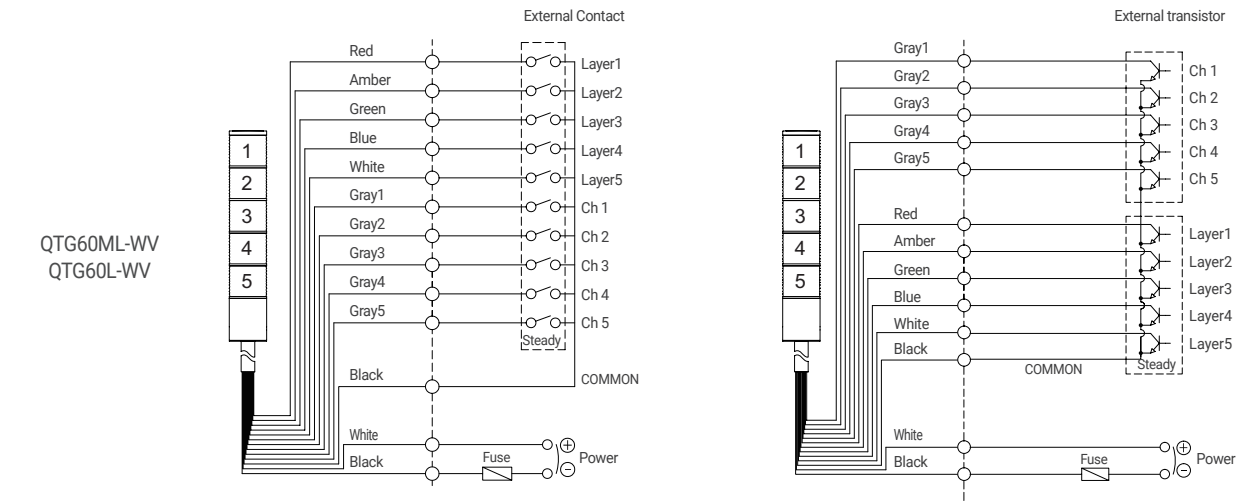
QTG60(M)L-WV



Wiring Instructions(using External Contact)

· Please wiring based below instruction in case of using External Contact

Wiring Instructions



Common

External Contact

ON(1)
OFF(0)

Binary input
modeCan select
up to 31 sound
options

Ch.	1	2	3	4	5
0	0	0	0	0	0
1	1	0	0	0	0
2	0	1	0	0	0
:	:	:	:	:	:
30	1	1	1	0	1
31	1	1	1	1	0

- ※ Up to 31 pre-recorded tones available via binary input as left table
- ※ You can only show 2 numbers with 1 switch "0", "1". With 5 switches you can have 31 combinations. Selecting one sound from 5 switches is the Binary input method.
- "0" : OFF
- "1" : ON

USB/Ethernet Signal Tower Lights

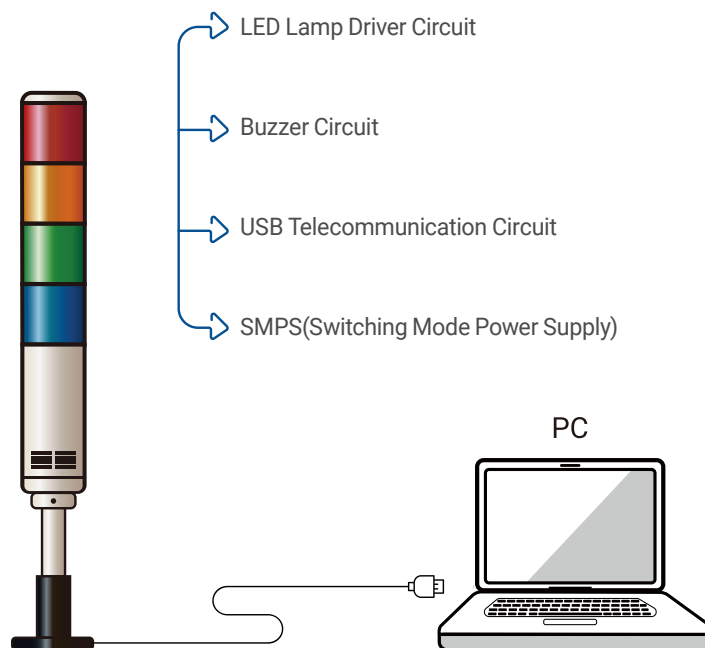


USB Technical Information	P. 188
Product Specifications	P. 193
Product Information	P. 196
Ethernet Technical Information	P. 209
Product Specifications	P. 217
Product Information	P. 219

Technical Data for USB Type LED Tower Light

Can be connected to the USB port of your PC without any additional power supply

- The LED tower light that is fully controllable by the PC application program of a PC via an USB port connection
- The USB communication cable is comprised of VCC, D-, D+, GND, and Shield
- Uses 2 DC 5V/500mA rated Personal Computer (PC) USB for its power
- Available on hosts that support USB 1.1 or higher
- Provides MS Runtime libraries for developers to utilize on various PC applications
- Built-in clear melody, alarm sound, the type of sound can be chosen when ordered
- Supported Program : VC++, VB, Delphi(32bit only), C#(64bit only)
- Supported Program : VC++, VB, Delphi(32bit only), C#(64bit only)
- Qlight's USB Tower Light is a LED tower lamp connected to a USB interface and controlled by a PC program. These products work on hosts that support USB 1.1 or higher and allow up to 4 USB Tower Light connections per PC
- Supports Low speed (1.5Mbps) and Full speed (12Mbps) communication
- Provides MS Runtime libraries for developers(VC++, VB, Delphi) to utilize in various PC applications. A sample program (VC++) is available for testing purposes.
- The product uses device drivers in the PC for built-in HID (Human Interface Devices). Therefore, the operating system (OS) does not need a separate driver to control and to communicate with the LED Tower Light through the PC application Native support for 32bit OS, and supports 64bit in Windows XP, Win7. For other OS, please contact us(32bit 64bit)



※ Image to the left shows the Tower Light Connections.

1. Basic USB Information

USB is an abbreviation for Universal Serial Bus, a PC peripheral bus standard developed to satisfy the industries growing need in the mid-1990s for a new interconnection between computers and electronic devices. Developed by companies such as Intel, Microsoft, Compaq, IBM, NEC, Nortel, DEC etc. the USB can connect up to 127 devices without reboot or setup for new peripherals. Data transfer speed have been improving rapidly.

Communication	DEVICE CLASS CODE	INTERFACE CLASS CODE
Audio Interface	0 x 00	0 x 01
Communication Device	0 x 02	-
HID	0 x 00	0 x 00
HUB	0 x 09	0 x 09
Storage	0 x 00	0 x 08
Monitor	Same as HID	Same as HID
Print	-	0 x 07

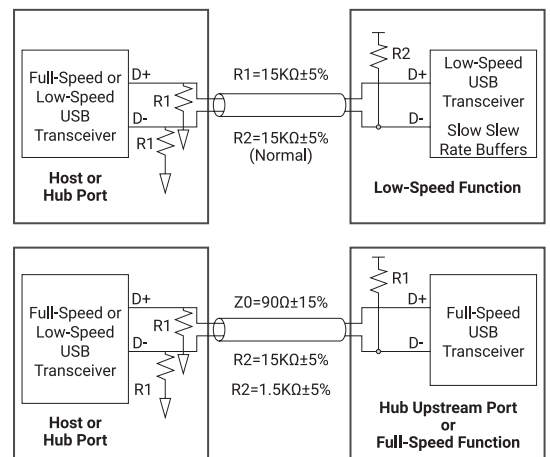
*HID(Human Interface Devices)?

Interface Device (HID). These devices can be used to control the PC. A typical HID device includes a mouse, keyboard, joystick, etc.

The data from the devices is sent to the host(PC) by a "interrupt" type IN-endpoint format.

2. CONNECTION

The process of connecting and detecting the device to the USB port is called "the initial determination". After "the initial determination" is made, the host PC requests the device's specific role and the function is then specified by the Descriptor. At that moment the device and the PC periodically exchanges requests, and the descriptor. This process is called "Enumeration". After the finishing the "enumeration" process the PC detects the device and registers it as a USB Device. When the registration is completed, the USB Device exchanges data and perform its designated function.



The process how the USB Device is connected to the PC

- ① When you connect a USB Device to the PC, Device is powered on.
- ② Normally the D+, D- of the PC is on low signal with both D+ and D- having pull down resistors of 15K Ω .
- ③ A full speed USB Device has a pull-up resistor of 1.5K Ω hung on D+, Low speed devices on the other hand have a pull-up resistor of 1.5K Ω on the D-.
- ④ Therefore, the PC usually has a low signal on the data line but when the USB device is connected the PC it detects the high signal of the data line and notifies the host of the USB device connection.

Technical Data for USB Type LED Tower Light

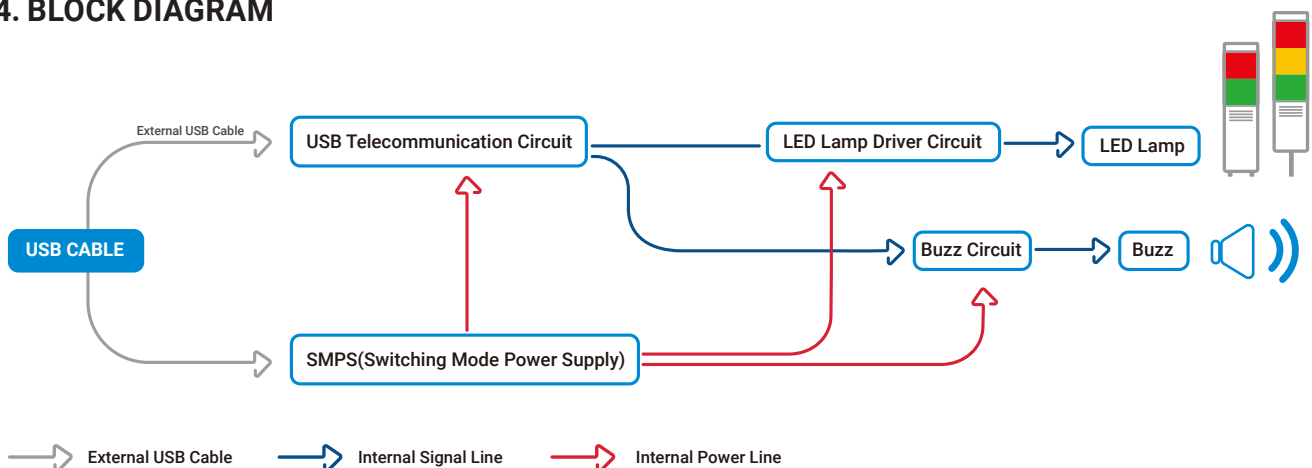
3.Communication data format of the USB product

Developers can use the programming format below to control the LED USB Tower light via PC.
For detailed programing information, please see the reference code that is provided separately.

PC to USB TOWER LAMP

No.	TYPE	ABB	DESCRIPT	Size(Byte)
1	DEVICE INFORMATION	VID	VENDOR ID : 0x04D8(Provided by IC manufacturer)	2
2		PID	PRODUCT ID: 0xE73C(QLIGHT ID)	2
3		INDEX	1. Maximum of 4 USB tower lights can be installed per PC. 2. Field value helps to distinguish each USB tower light. 3. Reference - USB0 : 0x4970/ USB1 : 0x4971/ USB2 : 0x4972/ usb3 : 0x4973 4. Assign 0-3 for convenient use in IBM PC environment.	2
1	DATA	Write	1. Send 'W=0x57' which means transferring the data from PC to USB.	1
2		Sound Group	1. Field for sound pattern designation. 0 : WS/ 1 : WP/ 2 : WM/ 3 : WA/ 4 : WB/ 5 : BZ/ 6 : WM(8)/ 7 : WA(8) 2. Total 8 groups are provided and each group has channel 1 to 5.	1
3		R LAMP	1. Field for controlling Red lamp. 2. Reference - 0 : LAMP OFF/ 1 : LAMP BLINK(ON/OFF)/ 2 : LAMP ON/ Else : Don't care	1
4		A LAMP	1. Field for controlling Amber lamp. 2. Reference - 0 : LAMP OFF/ 1 : LAMP BLINK(ON/OFF)/ 2 : LAMP ON/ Else : Don't care	1
5		G LAMP	1. Field for controlling Green lamp. 2. Reference - 0 : LAMP OFF/ 1 : LAMP BLINK(ON/OFF)/ 2 : LAMP ON/ Else : Don't care	1
6		B LAMP	1. Field for controlling Blue lamp. 2. Reference - 0 : LAMP OFF/ 1 : LAMP BLINK(ON/OFF)/ 2 : LAMP ON/ Else : Don't care	1
7		W LAMP	1. Field for controlling White lamp. 2. Reference - 0 : LAMP OFF/ 1 : LAMP BLINK(ON/OFF)/ 2 : LAMP ON/ Else : Don't care	1

4. BLOCK DIAGRAM

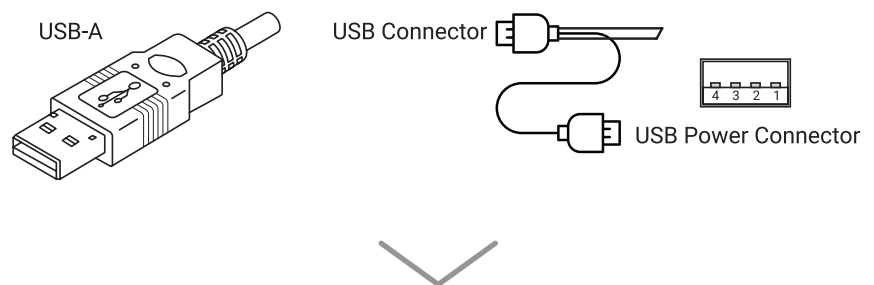


5. SPECIFICATION

Category	Specification	Category	Specification
Tower light	·Layers(Layer): 1-5 ·Voltage(Voltage): DC12V ·Current(Current): 300mA ·Color(Color): ● Red ● Amber ● Green ● Blue ○ White	Cable	1. VCC (Red) 2. D- (White) 3. D+ (Green) 4. GND (Black) 5. Shield
Speaker	·Speaker Rated(Rated): 1W ·Volume(Volume): Max. 85dB at 1m	Buzzer	·Voltage(Voltage): DC12V ·Current(Current): 20mA ·Volume(Volume): Max.90dB at 1m
USB standard	·Available on hosts that support USB 1.1 or higher ·5V/500mA rated (uses 2 USB port)	Input voltage	·USB DC 5V×2PORT (Built-in 5V To 12V converter)

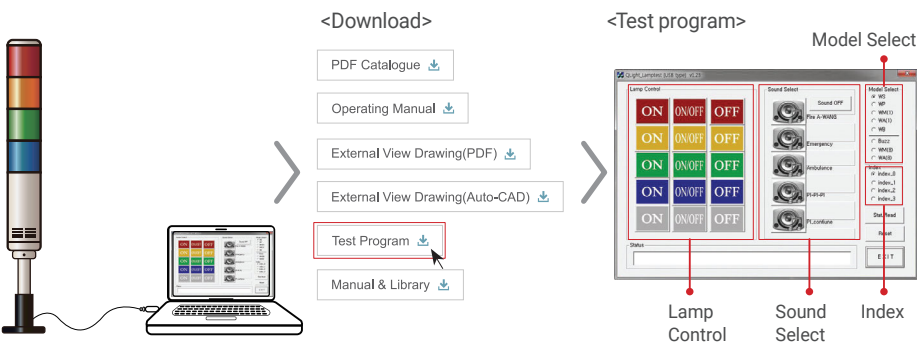
6. USB CABLE

1. The power consumption of a USB Tower light(3 layers type) is only about 2.5W.
2. The USB specification is 5VDC/(300mA/500mA) per PC port which equals approximately 1.5W.
Thus, using two ports will supply the proper power to the product.
3. It is possible to use multiple colors at the same time by using the USB power supply, but using one lamp and one alarm sound at a time is recommended.
4. There are two types of USB connections as shown in the image below; a standard USB connector and a USB power connector with a power line connected in parallel.



Pin	Name	WIRE Color	Description
1	VCC	RED	+5V
2	D-	WHITE	Data-
3	D+	GREEN	Data+
4	GND	BLACK	Ground

7. Use of the USB device



1. Connect the USB tower light to the PC as shown in the illustration above.
2. Download the test program from the provided CD or from our homepage.
3. The downloaded sample program will be saved as "USB Test Program.zip".
When you unzip the file, there will be a file with the names below.

 QLight_Lamptest_USB.exe [Test program]	 QUvc_dll.dll [Required library for test program]
--	--

※ When developing the program, please download and refer to the file "manual and library" (sample programs and manuals for developers).

4. When you run the "QLight lamptest_usb.exe" file, a test programs will show up as above.
Product's sound options are classified as WS/WP/WA/WM/BZ. The product will only play the sound option selected when the order was placed.

Article	Detailed specification
Lamp Control	- ON: Lamp turns on when the button is clicked - ON/OFF: Lamp flashes when the button is clicked - OFF: Lamp turns off when the button is clicked
Sound Select	- 1ch-5ch: Has 5 sounds per model, turns on the chosen sound - Click "Sound off" button to turn off the sound
Model Select	- WS : 5 warning sounds(mono) - WP : 5 special warning sounds(mono) - WM(1) : 5 Melodies(mono) - WA(1) : 5 alarms(mono) - WB : Software Buzzer 5 sounds(speaker type) - Buzzer : 5 Buzzer sounds
Index	- You can connect up to a Maximum of 4 USB Tower lights per PC - Must be controlled by selecting Index0 - Index3 for controlling the USB tower light. The default is set to Index0

Specification List for USB LED Tower Lights



Model number	ST45ML-USB	ST45L-USB	ST56ML-USB	ST56EL-USB	ST80ML-USB	ST80EL-USB
Voltage	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V
Outdia	Ø45	Ø45	Ø56	Ø56	Ø80	Ø80
Height	198-358	412-572	192-352	406-566	230-390	367-527
Depth						
Material	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/ Flashing	●	●	●	●	●
Buzzer sound	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m
Signal sounds	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP23	IP23	IP23	IP23	IP23	IP23
Usage place	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use
Certificates	CE	CE	CE	CE	-	-
Customization	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, 70mm lens height, Wall mount bracket	Customized color arrangements, 70mm lens height, Pole length adjustment	Customized color arrangements, 70mm lens height, Wall mount bracket	Customized color arrangements, 70mm lens height, Pole length adjustment
Page	P196	P196	P197	P197	P198	P198



Model number	QTG50ML-USB	QTG50L-USB	QTG60ML-USB	QTG60L-USB	QTG70ML-USB	QTG70L-USB
Voltage	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V
Outdia	Ø50	Ø50	Ø60	Ø60	Ø70	Ø70
Height	204-364	432-592	199-399	435-635	199-399	357-557
Depth						
Material	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/ Flashing	●	●	●	●	●
Buzzer sound	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP54	IP54	IP54	IP54	IP54	IP54
Usage place	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor
Certificates	CE	CE	CE	CE	CE	CE
Customization	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment
Page	P200-201	P200-201	P200-201	P200-201	P202	P202

Specification List for USB LED Tower Lights



Model number	QTC50ML-USB	QTC50L-USB	QTC60ML-USB	QTC60L-USB	QTC70ML-USB	QTC70L-USB
Voltage	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V
Dimension (mm)	Outdia	Ø50	Ø50	Ø60	Ø60	Ø70
	Height	204-364	432-592	199-399	435-635	199-399
	Depth					
Material	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/Flashing	●	●	●	●	●
Sound & Volume	Buzzer sound	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP54	IP54	IP54	IP54	IP54	IP54
Usage place	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor
Certificates	CE	CE	CE	CE	CE	CE
Customization	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment
Page	P203	P203	P204	P204	P205	P205



Model number	QTR50ML-USB	QTR50L-USB	QTR60ML-USB	QTR60L-USB	QTR70ML-USB	QTR70L-USB
Voltage	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V
Dimension (mm)	Outdia	Ø50	Ø50	Ø60	Ø60	Ø70
	Height	204-364	432-592	199-399	435-635	199-399
	Depth					
Material	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/Flashing	●	●	●	●	●
Sound & Volume	Buzzer sound	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP54	IP54	IP54	IP54	IP54	IP54
Usage place	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor
Certificates	-	-	-	-	-	-
Customization	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment
Page	P206-207	P206-207	P206-207	P206-207	P208	P208

Specification List for USB LED Tower Lights

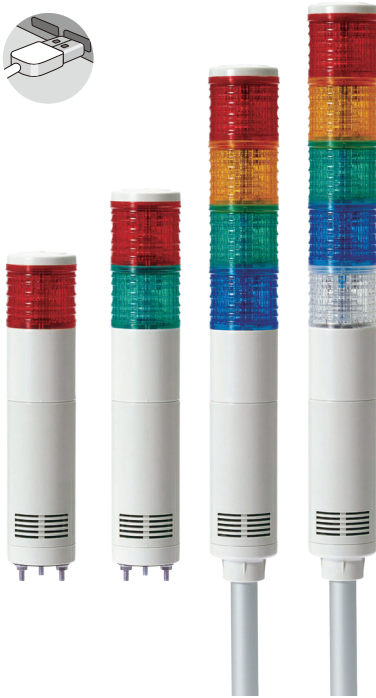
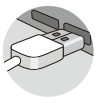


Model number		STDEL-USB
Voltage		DC12V, DC24V AC110V, AC220V
Dimension (mm)	Outdia	Ø80(Lens) Ø119(Body)
	Height	284-444
	Depth	
Material		Lens-AS Housing-ABS
Layers		1-5 Layers
Light source & Operation	LED Steady/ Flashing	●
	LED Strobe	
	LED Simulated revolving	
Sound & volume	Buzzer sound	
	Signal sounds	Max. 105dB at 1m
Layer color change		Yes
Mount bracket		Direct mount
Bracket		-
Protection rating		IP54
Usage place		Indoor/Outdoor Use
Certificates		-
Customization		Customized color arrangements, 70mm lens height
Page		P199

Ø45mm USB LED Tower Lights

ST45(M)L-USB

Connected to PC USB port without power supply unit



ST45(M)L-USB Series

PRODUCT SPECIFICATION

ST45(M)L-USB
ST56, 80(M)EL-USB

Buzzer sounds Max.90dB at 1m

Warning sounds Max.85dB at 1m(Based on WS-Ch1)

Protection rating IP23

Compliant with RoHS directive

- Software controls the steady/flashing function
 - USB control port and power supply port are provided with product
 - The number of activated LED lights are limited to the capacity of USB port current
 - Multiple connections on 1 PC is optionally available (up-to 4 units)
 - LED module Standard Operation
- 2 layers will operate at the same time : ST56EL-USB / ST56MEL-USB / ST80EL-USB / ST80MEL-USB
- 3 layers will operate at the same time : ST45L-USB / ST45ML-USB

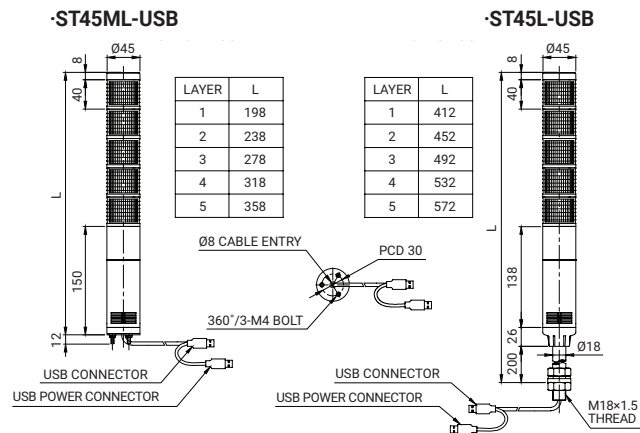


ST45L-USB Ø45mm Pole Mount USB LED Tower Light

Model number	Layers	Certificates	Color
ST45L-USB-BZ	5 Buzzer sounds	1 layer	1 layer: ● R
ST45L-USB-WS	5 Warning sounds	2 layers	2 layers: ● R ● G
ST45L-USB-WM	5 Melodies	3 layers	3 layers: ● R ● A ● G
ST45L-USB-WA	5 Alarms	4 layers	4 layers: ● R ● A ● G ● B
		5 layers	5 layers: ● R ● A ● G ● B ● W

Technical Diagram

Units : mm



ST45ML-USB Ø45mm Direct Mount USB LED Tower Light

Model number	Layers	Certificates	Color
ST45ML-USB-BZ	5 Buzzer sounds	1 layer	1 layer: ● R
ST45ML-USB-WS	5 Warning sounds	2 layers	2 layers: ● R ● G
ST45ML-USB-WM	5 Melodies	3 layers	3 layers: ● R ● A ● G
ST45ML-USB-WA	5 Alarms	4 layers	4 layers: ● R ● A ● G ● B
		5 layers	5 layers: ● R ● A ● G ● B ● W

Mounting bracket

Standard LB18 LW18 QZ18



Steel Steel ABS ABS

SZ18 QL18 SL18



AI ABS AI

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket TWS45



Wall mount bracket TWA45

Ordering Specifications

ST45L-USB-BZ	-	3	-	RAG	-	LW18
[Model number]		[Layers]		[Color]		[Bracket]
ST45L-USB-BZ		1-1 Layer		● R-Red		None-Standard
ST45L-USB-WS		2-2 Layers		● A-Amber		Bracket
ST45L-USB-WM		3-3 Layers		● G-Green		-LB18 -LW18
ST45L-USB-WA		4-4 Layers		● B-Blue		-QZ18 -SZ18
ST45ML-USB-BZ		5-5 Layers		○ W-White		-QL18 -SL18
ST45ML-USB-WS						
ST45ML-USB-WM						
ST45ML-USB-WA						

※ Mount brackets are available for the pole mount type(ST45L-USB series) only.

Ø56mm USB LED Tower Lights

ST56(M)EL-USB



Connected to PC USB port without power supply unit

ST56EL-USB Ø56mm Pole Mount USB LED Tower Light

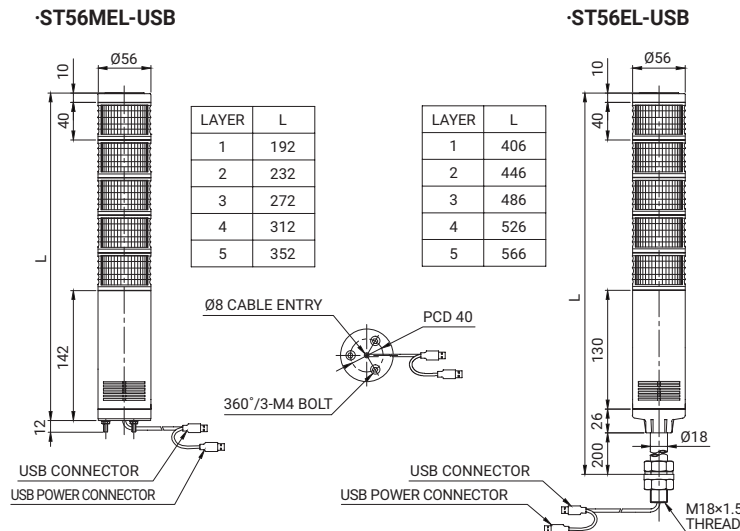
Model number		Layers	Certificates	Color
ST56EL-USB-BZ	5 Buzzer sounds	1 layer	CE	1 layer: R
ST56EL-USB-WS	5 Warning sounds	2 layers		2 layers: R G
ST56EL-USB-WM	5 Melodies	3 layers		3 layers: R A G
ST56EL-USB-WA	5 Alarms	4 layers		4 layers: R A G B
		5 layers		5 layers: R A G B W



ST56(M)EL-USB Series

Technical Diagram

Units : mm



ST56MEL-USB Ø56mm Direct Mount USB LED Tower Light

Model number		Layers	Certificates	Color
ST56MEL-USB-BZ	5 Buzzer sounds	1 layer	CE	1 layer: R
ST56MEL-USB-WS	5 Warning sounds	2 layers		2 layers: R G
ST56MEL-USB-WM	5 Melodies	3 layers		3 layers: R A G
ST56MEL-USB-WA	5 Alarms	4 layers		4 layers: R A G B
		5 layers		5 layers: R A G B W

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Wiring Instructions

- Connect both USB connector and USB power connector to PC



Ordering Specifications

ST56EL-USB-WS	-	3	-	RAG	-	QL18
[Model number]		[Layers]		[Color]		[Bracket]
ST56EL-USB-BZ		1-1 Layer		● R-Red		None-Standard
ST56EL-USB-WS		2-2 Layers		● A-Amber		Bracket
ST56EL-USB-WM		3-3 Layers		● G-Green		-LB18 -LW18
ST56EL-USB-WA		4-4 Layers		● B-Blue		-QZ18 -SZ18
ST56MEL-USB-BZ		5-5 Layers		○ W-White		-QL18 -SL18
ST56MEL-USB-WS						
ST56MEL-USB-WM						
ST56MEL-USB-WA						

※ Mount brackets are available for the pole mount type(ST56EL-USB series) only.

Customization

- Customized color arrangement available
- Customized pole length available
- 70mm lens height(Standard: 40mm)
- Wall mount bracket



Ø80mm USB LED Tower Lights

ST80(M)EL-USB

Connected to PC USB port without power supply unit



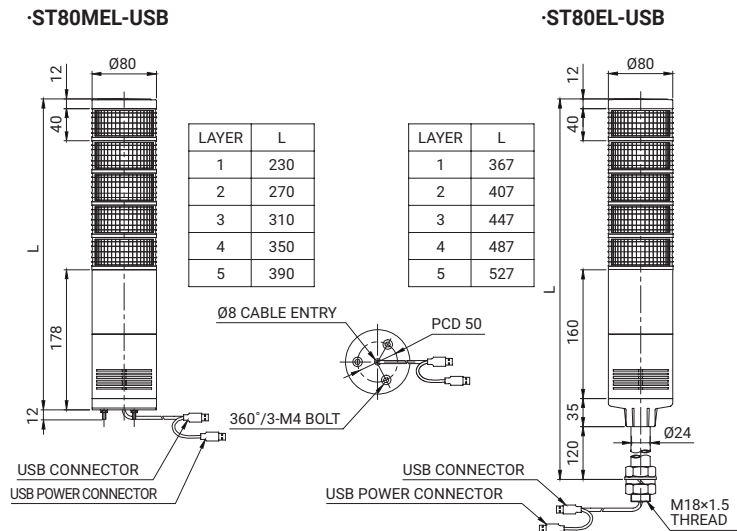
ST80(M)EL-USB Series

ST80EL-USB Ø80mm Pole Mount USB LED Tower Light

Model number	Layers	Certificates	Color
ST80EL-USB-BZ	5 Buzzer sounds	1 layer	1 layer: ● R
ST80EL-USB-WS	5 Warning sounds	2 layers	2 layers: ● R ● G
ST80EL-USB-WM	5 Melodies	3 layers	3 layers: ● R ● A ● G
ST80EL-USB-WA	5 Alarms	4 layers	4 layers: ● R ● A ● G ● B
		5 layers	5 layers: ● R ● A ● G ● B ○ W

Technical Diagram

Units : mm

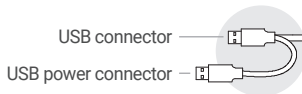


ST80MEL-USB Ø80mm Direct Mount USB LED Tower Light

Model number	Layers	Certificates	Color
ST80MEL-USB-BZ	5 Buzzer sounds	1 layer	1 layer: ● R
ST80MEL-USB-WS	5 Warning sounds	2 layers	2 layers: ● R ● G
ST80MEL-USB-WM	5 Melodies	3 layers	3 layers: ● R ● A ● G
ST80MEL-USB-WA	5 Alarms	4 layers	4 layers: ● R ● A ● G ● B
		5 layers	5 layers: ● R ● A ● G ● B ○ W

Wiring Instructions

- Connect both USB connector and USB power connector to PC



Mounting bracket

Standard	LB24	LW24	QZ24
Steel	Steel	ABS	ABS
SZ24	QL24	SL24	
AI	ABS	AI	

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangements
- 70mm lens height(Standard 40mm)
- Customized pole length available
- Wall mount bracket



Ordering Specifications

ST80EL-USB-WS	-	3	-	RAG	-	QL24
[Model number]		[Layers]		[Color]		[Bracket]
ST80EL-USB-BZ		1-1 Layer		● R-Red		None-Standard
ST80EL-USB-WS		2-2 Layers		● A-Amber		Bracket
ST80EL-USB-WM		3-3 Layers		● G-Green		-LB24 -LW24
ST80EL-USB-WA		4-4 Layers		● B-Blue		-QZ24 -SZ24
ST80MEL-USB-BZ		5-5 Layers		○ W-White		-QL24 -SL24
ST80MEL-USB-WS						
ST80MEL-USB-WM						
ST80MEL-USB-WA						

※ Mount brackets are available for the pole mount type(ST80EL-USB series) only.

USB LED Steady/ Flashing Tower Light & Electric Horn Combination

STDEL-USB



High signal volume controlled via USB

PRODUCT SPECIFICATION

STDEL-USB

Materials Lens-AS, Housing-ABS, Resonator-ABS

Ambient operating temperature -30°C to +50°C

Volume Max. 105dB at 1m(Based on WS-Ch1)

Protection rating IP54

Compliant with RoHS directive

- Ideal solution for building smart factories with state-of-the-art technology
- LED tower light that is fully controlled by a PC application via USB port connection
- Possible to use USB cable connection without an additional power supply
- LED Module Standard Operation: 2 layers will operate at the same time



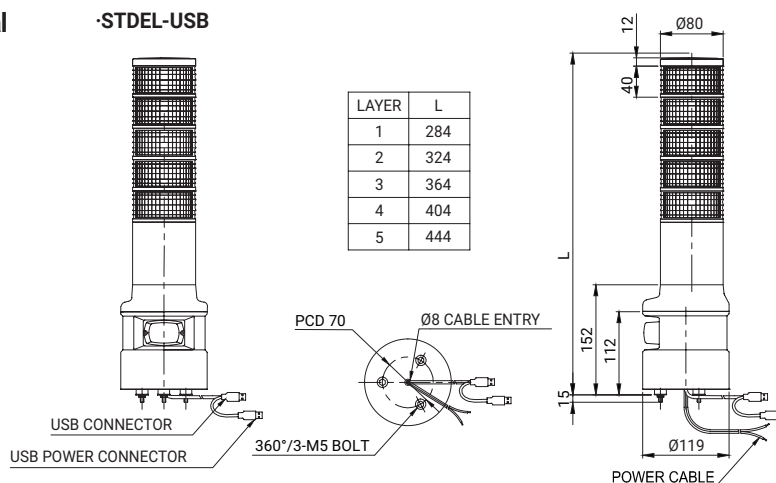
STDEL-USB

STDEL-USB Ø80mm USB Steady/ Flashing Tower Light & Electric Combination

Model number	Layers	Certificates	Color
STDEL-USB-WS	5 Warning sounds	1 layer	1 layer: R
STDEL-USB-WM	5 Melodies	2 layers	2 layers: R G
STDEL-USB-WA	5 Alarms	3 layers	3 layers: R A G
		4 layers	4 layers: R A G B
		5 layers	5 layers: R A G B W

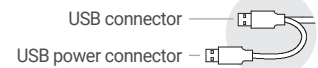
Technical Diagram

Units : mm



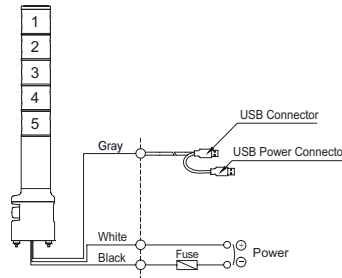
Wiring Instructions

- External power line
 - UL1015 AWG18(0.75sq) x 2C 400mm
- USB Cable : Connect both USB connector and USB power connector to PC



Wiring Instructions

STDEL-USB



Customization

- Customized color arrangements
- 70mm lens height (Standard 40mm)

Ordering Specifications

STDEL-USB-WS	-	3	-	24	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
STDEL-USB-WS		1-1 Layer		12-DC12V		R-Red
STDEL-USB-WM		2-2 Layers		24-DC24V		A-Amber
STDEL-USB-WA		3-3 Layers		110-AC110V		G-Green
		4-4 Layers		220-AC220V		B-Blue
		5-5 Layers				W-White

QTG50(M)L-USB / QTG60(M)L-USB



QTG50(M)L-USB Series

PRODUCT SPECIFICATION

QTG50(M)L-USB
QTG60(M)L-USB
QTG70(M)L-USB

Materials Lens-PC, Housing-ABS

Ambient operating temperature -30°C to +50°C

Volume Max. 85dB at 1m

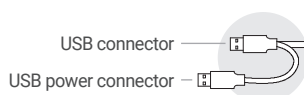
Protection rating IP54

Compliant with RoHS directive

- The LED tower light that is fully controllable by the PC application program of a PC via a USB port connection
- The USB communication cable is comprised of VCC, D-, D+, GND, and Shield
- Uses 2 DC 5V/500mA rated Personal Computer (PC) USB for its power
- Available on hosts that support USB 1.1 or higher
- Provides MS Runtime libraries for developers to utilize on various PC applications
- Built-in 5 buzzer tones
- Software controls the steady/flashing function
- USB control port and power supply port are provided with product
- The number of activated LED lights are limited to the capacity of USB port current
- Multiple connections on 1 PC is optionally available (up-to 4 units)
- LED module Standard Operation: 2 layers will operate at the same time
- Supported OS(32bit/64bit) : Windows XP, Win 7, Win 10
- Supported libraries : VC++, VB, Delphi(32bit only), C#(64bit only)

Wiring Instructions

- Connect both USB connector and USB power connector to PC



QTG50(M)L-USB ø50mm USB Tower Light

Model number	Layers	Certificates	Color
QTG50(M)L-USB-BZ	1 layer	CE	1 layer: R
QTGA50(M)L-USB-BZ	2 layers		2 layers: R G
	3 layers		3 layers: R A G
	4 layers		4 layers: R A G B
	5 layers		5 layers: R A G B W



QTG60(M)L-USB ø60mm USB Tower Light

Model number	Layers	Certificates	Color
QTG60(M)L-USB-BZ	1 layer	CE	1 layer: R
QTGA60(M)L-USB-BZ	2 layers		2 layers: R G
	3 layers		3 layers: R A G
	4 layers		4 layers: R A G B
	5 layers		5 layers: R A G B W

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

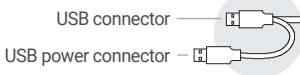
QTG70(M)L-USB



QTG70(M)L-USB Series

Wiring Instructions

- Connect both USB connector and USB power connector to PC



Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket TWS80



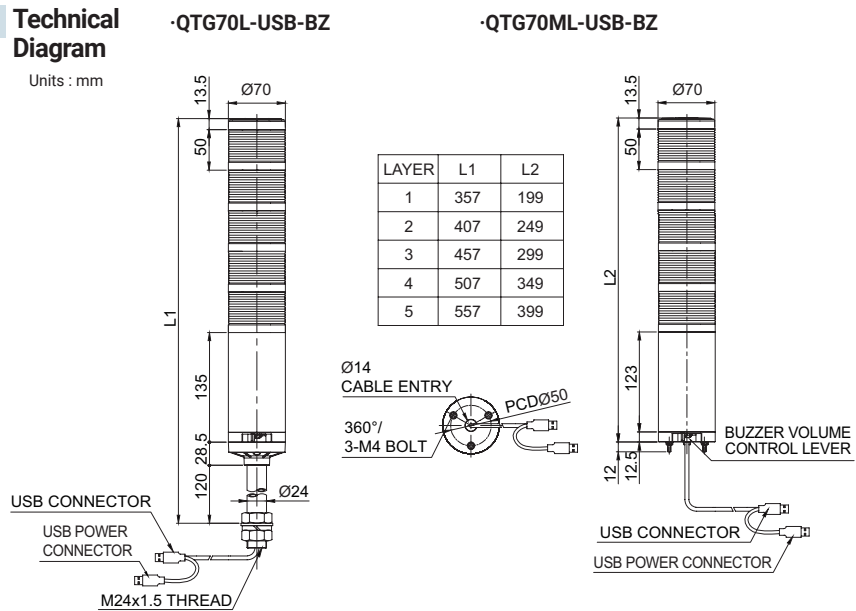
Wall mount bracket TWA80

QTG70(M)L-USB Ø70mm USB Tower Light

Model number	Layers	Certificates	Color
QTG70(M)L-USB-BZ	1 layer	CE	1 layer: ● R
QTGA70(M)L-USB-BZ	2 layers		2 layers: ● R ● G
	3 layers		3 layers: ● R ● A ● G
	4 layers		4 layers: ● R ● A ● G ● B
	5 layers		5 layers: ● R ● A ● G ● B ● W

Technical Diagram

Units : mm



Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	AI	ABS	AI

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

QTG70L-USB-BZ	-	3	-	RAG	-	LW24
[Model number]		[Layers]		[Color]		[Bracket]
QTG70L-USB-BZ		1-1 Layer		● R-Red		None-Standard
QTG70ML-USB-BZ		2-2 Layers		● A-Amber		Bracket
QTGA70L-USB-BZ		3-3 Layers		● G-Green		-LB24 -LW24
QTGA70ML-USB-BZ		4-4 Layers		● B-Blue		-QZ24 -SZ24
		5-5 Layers		○ W-White		-QL24 -SL24

※ Mount brackets are available for the pole mount type(QTG70L-USB Series) only

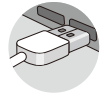


PRODUCT SPECIFICATION

QTC50(M)L-USB
QTC60(M)L-USB
QTC70(M)L-USB

Materials Lens, Inner Lens -PC, Housing-ABS
Ambient operating temperature -30°C to +50°C
Volume Max. 85dB at 1m
Protection rating IP54
Compliant with RoHS directive

- The LED tower light that is fully controllable by the PC application program of a PC via a USB port connection
- The USB communication cable is comprised of VCC, D-, D+, GND, and Shield
- Uses 2 DC 5V/500mA rated Personal Computer (PC) USB for its power
- Available on hosts that support USB 1.1 or higher
- Provides MS Runtime libraries for developers to utilize on various PC applications
- Built-in 5 buzzer tones
- Software controls the steady/flashing function
- USB control port and power supply port are provided with product
- The number of activated LED lights are limited to the capacity of USB port current
- Multiple connections on 1 PC is optionally available (up-to 4 units)
- LED module Standard Operation: 2 layers will operate at the same time
- Supported OS(32bit/64bit) : Windows XP, Win 7, Win 10
- Supported libraries : VC++, VB, Delphi(32bit only), C#(64bit only)



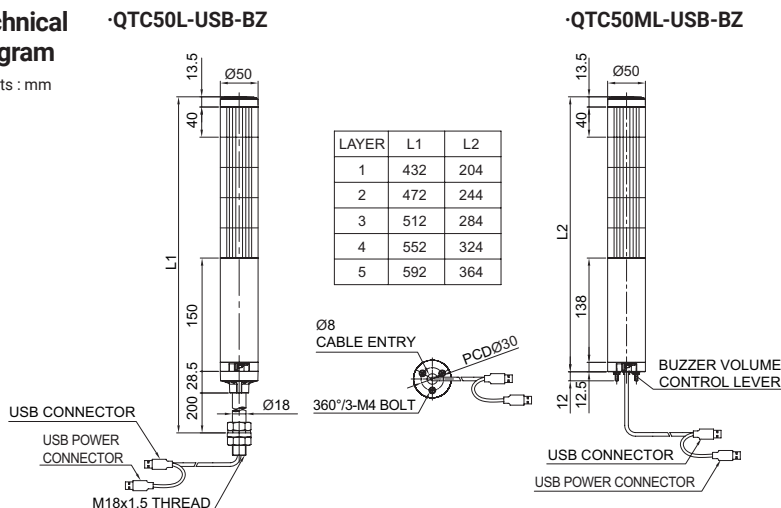
QTC50(M)L-USB Series

QTC50(M)L-USB Ø50mm USB Tower Light

Model number	Layers	Certificates	Color
QTC50(M)L-USB-BZ	5 Buzzer sounds	CE	1 layer: ● R
QTC50(M)L-USB-BZ			2 layers: ● R ● G
			3 layers: ● R ● A ● G
			4 layers: ● R ● A ● G ● B
			5 layers: ● R ● A ● G ● B ● W

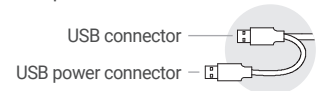
Technical Diagram

Units : mm



Wiring Instructions

- Connect both USB connector and USB power connector to PC



Mounting bracket

Standard	LB18	LW18	QZ18
Steel	Steel	ABS	ABS
SZ18	QL18	SL18	
AI	ABS	AI	

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Ordering Specifications

QTC50L-USB-BZ	-	3	-	RAG	-	LW18
[Model number]		[Layers]		[Color]		[Bracket]
QTC50L-USB-BZ		1-1 Layer		● R-Red		None-Standard
QTC50ML-USB-BZ		2-2 Layers		● A-Amber		Bracket
QTC50L-USB-BZ		3-3 Layers		● G-Green		-LB18 -LW18
QTC50ML-USB-BZ		4-4 Layers		● B-Blue		-QZ18 -SZ18
		5-5 Layers		○ W-White		-QL18 -SL18

※ Mount brackets are available for the pole mount type(QTC50L-USB Series) only

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket TWS45

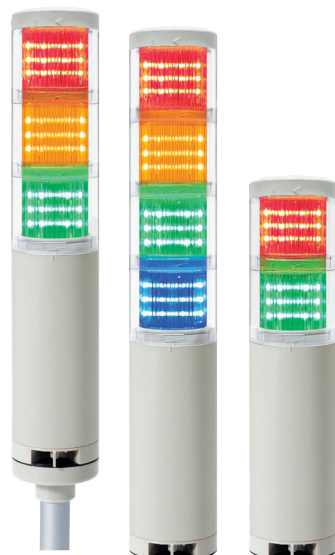
Wall mount bracket TWA45

QTC60(M)L-USB



QTC60(M)L-USB Ø60mm USB Tower Light

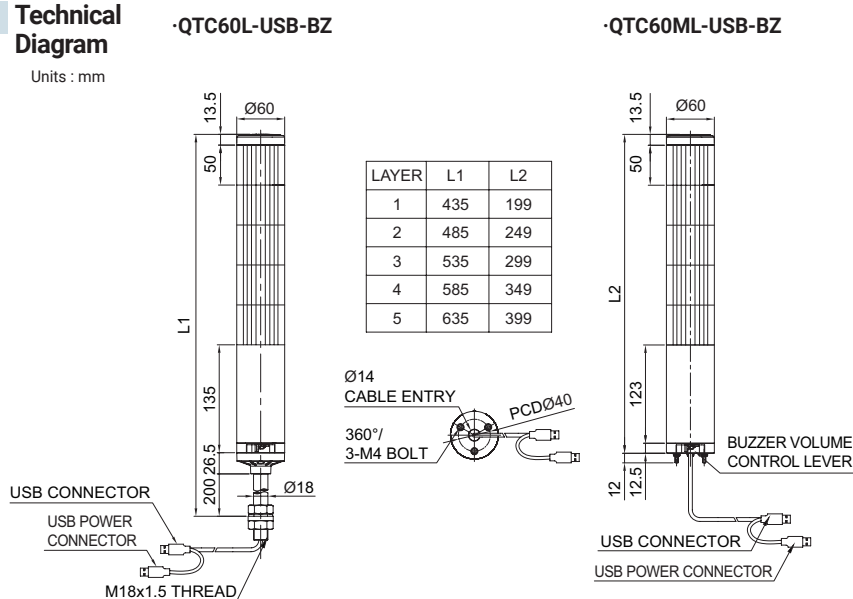
Model number	Layers	Certificates	Color
QTC60(M)L-USB-BZ	1 layer	CE	1 layer: ● R
QTC60(M)L-USB-BZ	2 layers		2 layers: ● R ● G
	3 layers		3 layers: ● R ● A ● G
	4 layers		4 layers: ● R ● A ● G ● B
	5 layers		5 layers: ● R ● A ● G ● B ● W



QTC60(M)L-USB Series

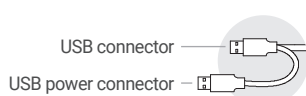
Technical Diagram

Units : mm



Wiring Instructions

- Connect both USB connector and USB power connector to PC



Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket
TWS45



Wall mount bracket
TWA45

Ordering Specifications

QTC60L-USB-BZ	-	3	-	RAG	-	LW18
[Model number]		[Layers]		[Color]		[Bracket]
QTC60L-USB-BZ		1-1 Layer		● R-Red		None-Standard
QTC60ML-USB-BZ		2-2 Layers		● A-Amber		Bracket
QTC60L-USB-BZ		3-3 Layers		● G-Green		-LB18 -LW18
QTC60ML-USB-BZ		4-4 Layers		● B-Blue		-QZ18 -SZ18
		5-5 Layers		○ W-White		-QL18 -SL18

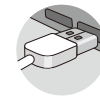
※ Mount brackets are available for the pole mount type(QTC60L-USB Series) only

QTC70(M)L-USB



QTC70(M)L-USB Ø70mm USB Tower Light

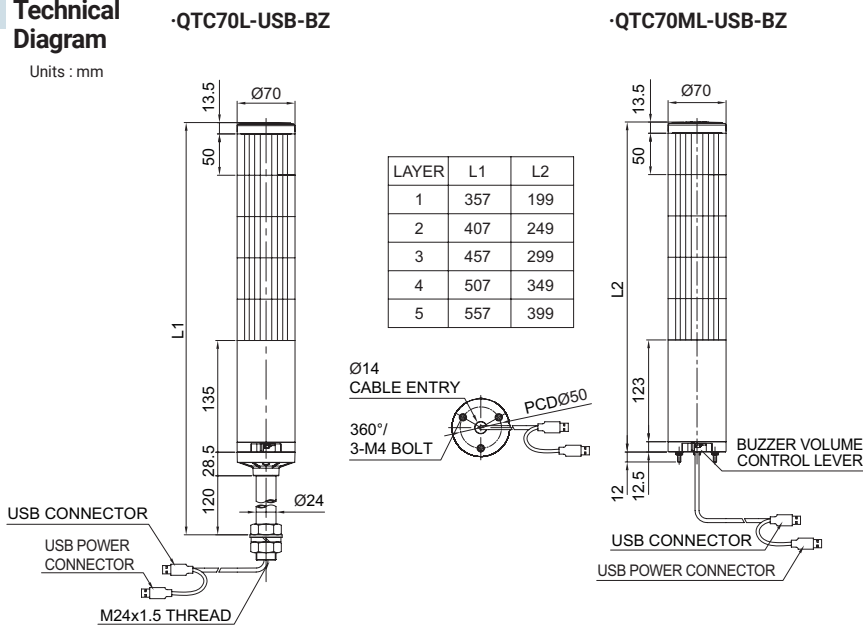
Model number	Layers	Certificates	Color
QTC70(M)L-USB-BZ	5 Buzzer sounds	CE	1 layer: ● R
QTC70(M)L-USB-BZ			2 layers: ● R ● G
			3 layers: ● R ● A ● G
			4 layers: ● R ● A ● G ● B
			5 layers: ● R ● A ● G ● B ● W



QTC70(M)L-USB Series

Technical Diagram

Units : mm



Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

QTC70L-USB-BZ	-	3	-	RAG	-	LW24
[Model number]		[Layers]		[Color]		[Bracket]
QTC70L-USB-BZ		1-1 Layer		● R-Red		None-Standard
QTC70ML-USB-BZ		2-2 Layers		● A-Amber		Bracket
QTC70L-USB-BZ		3-3 Layers		● G-Green		-LB24 -LW24
QTC70ML-USB-BZ		4-4 Layers		● B-Blue		-QZ24 -SZ24
		5-5 Layers		○ W-White		-QL24 -SL24

Wiring Instructions

- Connect both USB connector and USB power connector to PC



Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



※ Mount brackets are available for the pole mount type(QTC70L-USB Series) only

QTR50(M)L-USB / QTR60(M)L-USB



QTR50(M)L-USB Series

PRODUCT SPECIFICATION

QTR50(M)L-USB
QTR60(M)L-USB
QTR70(M)L-USB

Materials Lens-PC, Housing-ABS

Ambient operating temperature -30°C to +50°C

Volume Max. 85dB at 1m

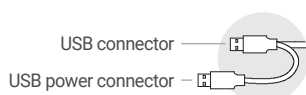
Protection rating IP54

Compliant with RoHS directive

- The LED tower light that is fully controllable by the PC application program of a PC via a USB port connection
- The USB communication cable is comprised of VCC, D-, D+, GND, and Shield
- Uses 2 DC 5V/500mA rated Personal Computer (PC) USB for its power
- Available on hosts that support USB 1.1 or higher
- Provides MS Runtime libraries for developers to utilize on various PC applications
- Built-in 5 buzzer tones
- Software controls the steady/flashing function
- USB control port and power supply port are provided with product
- The number of activated LED lights are limited to the capacity of USB port current
- When two or more USB products are used in one PC, it can be made to order specification
- Multiple connections on 1 PC is optionally available (up-to 4 units)
- LED module Standard Operation: 2 layers will operate at the same time
- Supported OS(32bit/64bit) : Windows XP, Win 7, Win 10
- Supported libraries : VC++, VB, Delphi(32bit only), C#(64bit only)

Wiring Instructions

- Connect both USB connector and USB power connector to PC



QTR50(M)L-USB Ø50mm USB Tower Light

Model number	Layers	Certificates	Color
QTR50(M)L-USB-BZ	1 layer	CE	1 layer: ● R
QTRA50(M)L-USB-BZ	2 layers		2 layers: ● R ● G
	3 layers		3 layers: ● R ● A ● G
	4 layers		4 layers: ● R ● A ● G ● B
	5 layers		5 layers: ● R ● A ● G ● B ○ W



QTR60(M)L-USB Ø60mm USB Tower Light

Model number	Layers	Certificates	Color
QTR60(M)L-USB-BZ	1 layer	CE	1 layer: ● R
QTRA60(M)L-USB-BZ	2 layers		2 layers: ● R ● G
	3 layers		3 layers: ● R ● A ● G
	4 layers		4 layers: ● R ● A ● G ● B
	5 layers		5 layers: ● R ● A ● G ● B ○ W

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

QTR70(M)L-USB



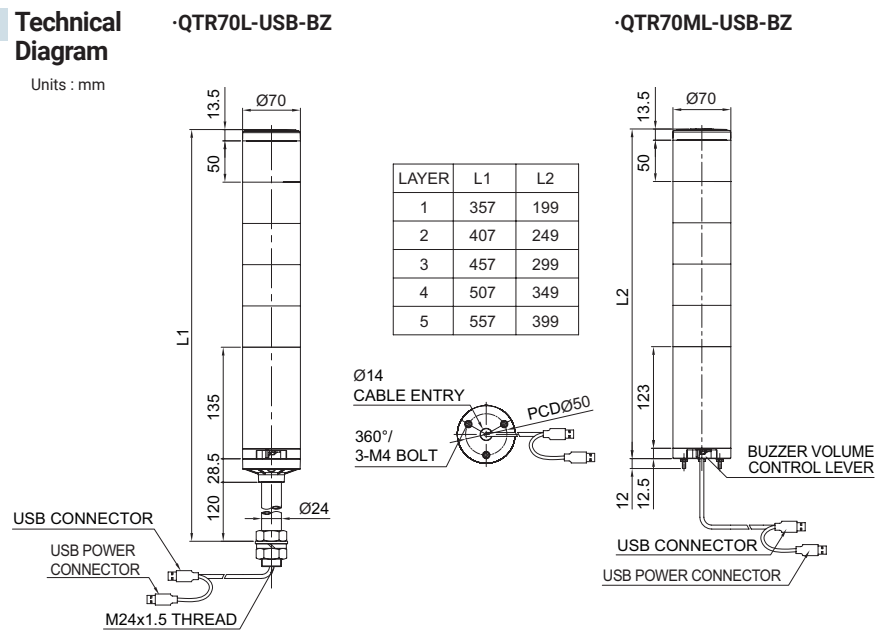
QTR70(M)L-USB Series

QTR70(M)L-USB Ø70mm USB Tower Light, Pole mount

Model number	Layers	Certificates	Color
QTR70(M)L-USB-BZ	1 layer	CE	1 layer: ● R
QTRA70(M)L-USB-BZ	2 layers		2 layers: ● R ● G
	3 layers		3 layers: ● R ● A ● G
	4 layers		4 layers: ● R ● A ● G ● B
	5 layers		5 layers: ● R ● A ● G ● B ● W

Technical Diagram

Units : mm



Wiring Instructions

- Connect both USB connector and USB power connector to PC



Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket
TWS80



Wall mount bracket
TWA80

Ordering Specifications

QTR70L-USB-BZ	-	3	-	RAG	-	LW24
[Model number]		[Layers]		[Color]		[Bracket]
QTR70L-USB-BZ		1-1 Layer		● R-Red		None-Standard
QTR70ML-USB-BZ		2-2 Layers		● A-Amber		Bracket
QTRA70L-USB-BZ		3-3 Layers		● G-Green		-LB24 -LW24
QTRA70ML-USB-BZ		4-4 Layers		● B-Blue		-QZ24 -SZ24
		5-5 Layers		○ W-White		-QL24 -SL24

※ Mount brackets are available for the pole mount type(QTR70L-USB Series) only



Controllable LED tower light connected to the application program in the PC using a PC and ETN(Ethernet) interface

- ETN tower light is a controllable LED tower light connected to the application program in the PC using a PC and ETN(Ethernet) Interface.
- You can monitor or control the product from a remote location because it is controllable by using a web browser or application on a PC.
- Provides MS runtime libraries for developers(VC ++, VB, Delphi(32bit), c#(64bit)) to utilize on various applications of a PC, and a sample program (VC++) is available for testing purpose.
- Supported OS(32bit 64bit) : Windows XP, Windows 7, Windows 10
- Supported Program : VC++, VB, Delphi(32bit only), C#(64bit only)
- Communication speed : 10M/ half duplex method



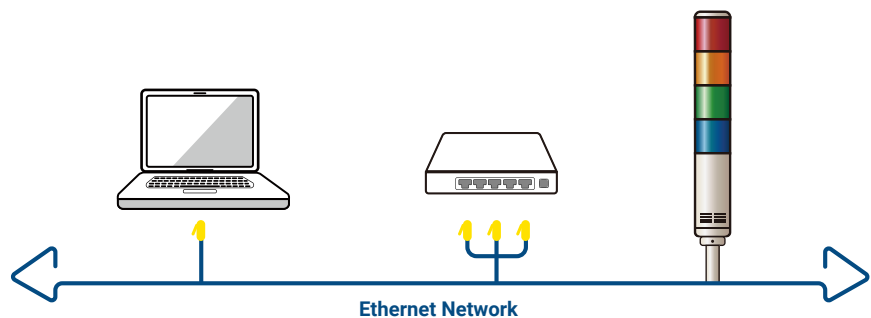
1. What is Ethernet?

Ethernet is the most popular physical layer LAN technology in use today. It defines the number of conductors that are required for a connection, the performance thresholds that can be expected, and provides the framework for data transmission. A standard Ethernet network can transmit data at a rate up to 10 Megabits per second (10 Mbps). The Institute for Electrical and Electronic Engineers developed an Ethernet standard known as IEEE Standard 802.3. This standard defines rules for configuring an Ethernet network and also specifies how the elements in an Ethernet network interact with one another. By adhering to the IEEE standard, network equipment and network protocols can communicate efficiently.

2. What is TCP/IP Protocol?

TCP/IP (Transmission Control Protocol/Internet Protocol) is the basic communication language or protocol of the Internet. It can also be used as a communications protocol in a private network (either an intranet or an extranet) TCP/IP is a two-layer program. The higher layer, Transmission Control Protocol, manages the assembling of a message or file into smaller packets that are transmitted over the Internet and received by a TCP layer that reassembles the packets into the original message. The lower layer, Internet Protocol, handles the address part of each packet so that it gets to the right destination.

Each gateway computer on the network checks this address to see where to forward the message. TCP/IP communication is primarily point-to-point, meaning each communication is from one point (or host computer) in the network to another point or host computer.



※ The figure below shows the connection of the ETN tower light.

3. IP Address format

The format of an IP address is a 32-bit numeric address written as four numbers separated by periods. Each number can be zero to 255. For example, 203.172.12.7 could be an IP address.

An IP address is divided into network address and computer address, and classified as Class A, B, C, D, and E depending on the size of the network or the number of hosts. Of these, only Class A, B, C are given to a general user. The IP address what we are about to test is classified as C Class.

192	.	168	.	0	.	128
1 st		2 nd		3 rd		4 th

No	Description	Command
1 st	1 st address, Classes are A,B,C,D,E. A CLASS : Large network B CLASS : Large network C CLASS : Small network(private IP) D CLASS : Multi cast(use in designated group) E CLASS : Stand by	A CLASS address : 1-127 B CLASS address : 128-191 C CLASS address : 192-223 D CLASS address : 224-239 E CLASS address : 240-255
2 nd	2 nd address, Being Network ID or Host ID depending on 1 st Address	
3 rd	3 rd address, Being Network ID or Host ID depending on 1 st Address	
4 th	4 th address, Being Network ID or Host ID depending on 1 st 1 st Address	

IP ADDRESS ASSIGNMENT BY CLASS

GROUP	1 st address	2 nd address	3 rd address	4 th address
A CLASS	1-127	0.0.0-255.255.255		
B CLASS	128.0-191.255		0.0-255.255	
C CLASS	192.0.0-223.255.255			0-255



4. What is MAC Address?

MAC address (Media Access Control) is a global unique identifier assigned to network devices. In other words, you can use the Mac Address IP address to find a separate device. It delivers Data Packet just like a postman delivers a letter.

So, what would be the difference between IP address and Mac address? Both IP address and MAC address are the address of its destination. IP address is simply the address while Mac address is a social security number of people living in the house IP address can be changed dynamically, but Mac address only has one unique address per device.

Mac Address

an address for computers to communicate with each other, and there is no other PC that has a same Mac Addr as yours.

IP Address

needed routing when other computers are searching for your computer address, that is an address of your computer for others to search.

An IP address is assigned to every device on a network so that device can be located on the network. The internet is a network, and every device on a TCP/IP network must have a unique IP address. IP addresses are assigned, either automatically by DHCP, or by manual configuration. That number is used by the network routing equipment so that when you ask for a page from the site, that request is routed to the right server. MAC addresses are typically used only to direct packets in the device-to-device portion of a network transaction. That means that your computer's MAC address will be in network packets only until the next device in the chain. If you have a router, then your machine's MAC address will go no further than that. Your router's MAC address will show up in packets sent further upstream, until that too is replaced by the MAC address of the next device.

5. What is PORT?

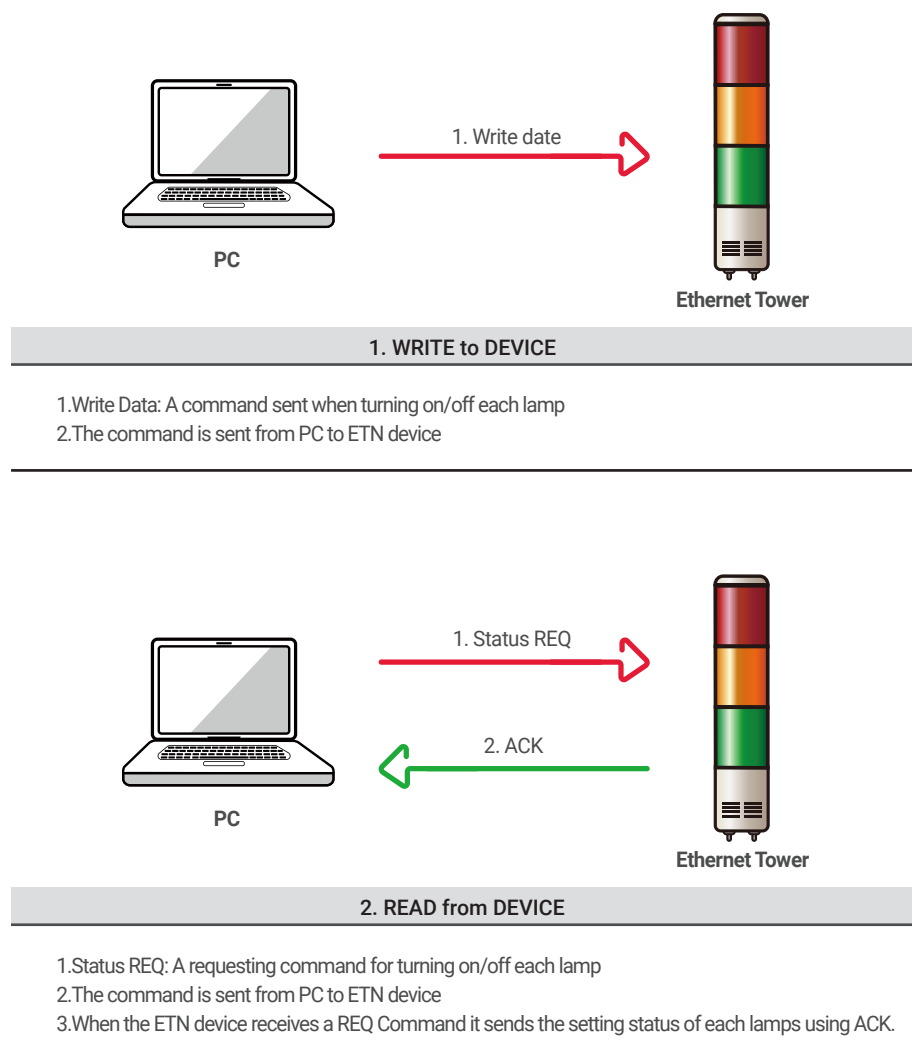
A port (noun) is a "logical connection place" and specifically, using the Internet's protocol and TCP/IP, the way a client's program specifies a particular server program on a computer in a network. Higher-level applications that use TCP/IP such as the Web protocol, Hypertext Transfer Protocol, have ports with preassigned numbers. These are known as "well-known ports" that have been assigned by the Internet Assigned Numbers Authority (IANA). Other application processes are given port numbers dynamically for each connection. When a service (server program) initially starts, it is said to be bound to its designated port number. As any client's program wants to use that server, it also must request to bind to the designated port number.

Port numbers are from 0 to 65535. Ports 0 to 1024 are reserved for use by certain privileged services. For the HTTP service, port 80 is defined as a default and it does not have to be specified in the Uniform Resource Locator.

6. What is Socket Program?

It is to implement a program to send and receive data between host PCs that are apart from each other in network programming. However, the connection between host PCs is far away so a device is that has a feature of connecting the two at a software level is required, and that device is the socket. Generally, the terms “socket programming” and “network programming” have the same meaning. We have provided a library file for users so that they can easily use the socket program.

※ The figure below show the sequence of our ETN Tower Lamp.





7. Applying the Ethernet Device

1. Proceed to check the current network and the assigned IP address of your PC.
Start(run) -> CMD – ipconfig/all

Ethernet adapter Local Area Connection:

```
Connection-specific DNS Suffix . :  
IP Address. . . . . : 192.168.10.101  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : 192.168.10.1
```

2. Because the ETN tower light is connected to a hub with the PC that is same as the picture on the front page, ETN tower light and the PC are now connected with the same network.
3. Download the library file, test programs and manuals from the CD provided or from our website.
4. When you unzip the file, there will be a file with the same name below. The instructions are listed inside the file.

[Download]

[PDF Catalogue](#) 

[Operating Manual](#) 

[Test Program](#) 

[Manual & Library](#) 



1.Dev. ETN Program Sample

Program Sample needed when developing (x32bit/x64bit compatibility)



2.How to use

Instructions of how to use the product and library file

5. When you unzip "ETN TEST PROGRAM.zip" file, following folders are created.



1.ETN Test Program

A program for setting IP before testing the ETN device

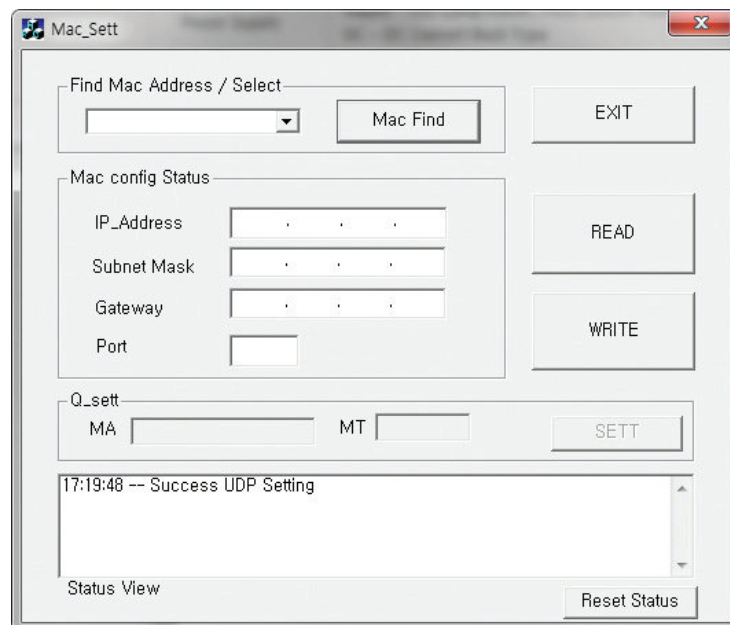


2.IP Set Program

A program for setting testing the ETN device

6. Run the "Mac_Setting.exe" program that is inside the IP Set Program Folder

- When the program is running such as the right figure, click the "Mac Find" button in the "Find Mac Address/Select" section
- MAC Address of the connected device appears when you click the device List combo box.
(If the Mac Addr does not appear, make sure that the connection status or the power supply is functional and then retry.)
- Select the Mac Addr of the device you want to change, and then click on the "eRad" button.
- Check the information and settings from the "Mac config status"
- Set the value of users network information identified in the previous chapter (subnet mask, gateway) in each text box, and set a different IP_Addr than your PC apply the settings by pressing the write buttons
- The port is set to "20,000"by default and the port number can be changed if necessary
- Reconnect after disconnecting the power from the tower light.



7. ETN Test Program Files folder includes the followings

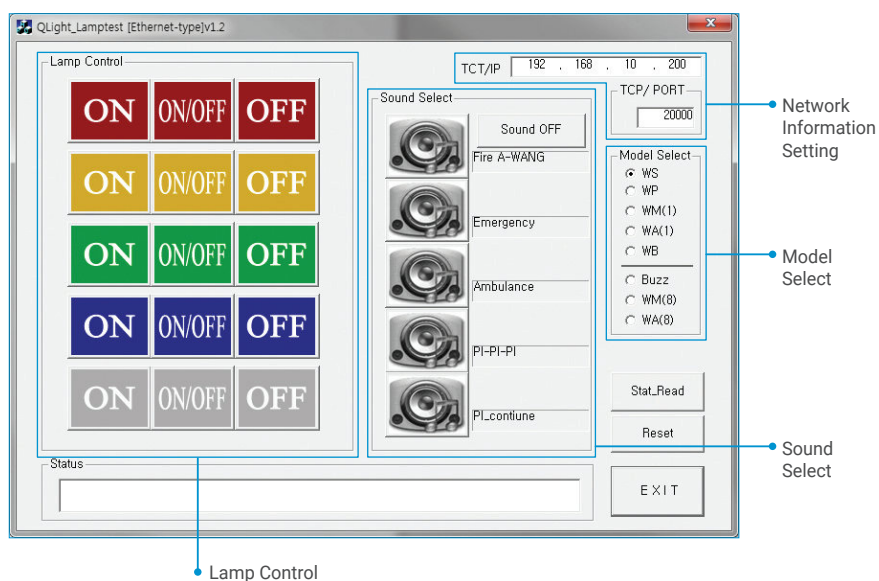
 QLight_Lamptest_TCP.exe

 QTvc_dll.dll

8. Run the "QLight_Lamptest_TCP" program

Article	Detailed specification
Network Information Setting	- Input port on TCP/PORT and IP address on TCP/IP that set on Ethernet tower lights
Lamp Control	- ON : Click the button Lamp ON - ON/OFF : Click the button Lamp Flash - OFF : Click the button Lamp OFF
Model Select	- WS : 5 warning sounds(mono) - WP : 5 special warning sounds(mono) - WM(1) : 5 Melodies(mono) - WA(1) : 5 alarms(mono) - WB : Software Buzzer 5 sounds(speaker type) - Buzzer : 5 Buzzer sounds
Sound Select	- Select 5 sounds based on model which is fixed on "Model select"

· User can select appropriate sound pattern by using 'Model select' menu. There're WS, WP, WM, WA and WB sound patterns and user can choose the option when placing order.



Specification List for Ethernet LED Tower Lights



Model number	ST45ML-ETN	ST45L-ETN	ST56MEL-ETN	ST56EL-ETN	ST80MEL-ETN	ST80EL-ETN
Voltage	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V
Dimension (mm)	Outdia	Ø45	Ø45	Ø56	Ø56	Ø80
	Height	244-404	458-618	257-517	471-631	230-390
	Depth					
Material	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/ Flashing	●	●	●	●	●
Sound & Volume	Buzzer sound	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m
	Signal sounds	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP23	IP23	IP23	IP23	IP23	IP23
Usage place	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use
Certificates	CE	CE	CE, KC	CE, KC	-	-
Customization	Customized color arrange- ments, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, 70mm lens height, Wall mount bracket	Customized color arrangements, 70mm lens height, Pole length adjustment	Customized color arrangements, 70mm lens height, Wall mount bracket	Customized color arrangements, 70mm lens height, Pole length adjustment
Page	P219	P219	P220	P220	P221	P221



Model number	QTG50(M)L-ETN	QTG60(M)L-ETN	QTG70(M)L-ETN	QTC50(M)L-ETN	QTC60(M)L-ETN	QTC70(M)L-ETN
Voltage	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V
Dimension (mm)	Outdia	Ø50	Ø60	Ø70	Ø50	Ø60
	Height	204-364(ML) 432-592(L)	199-399(ML) 435-635(L)	199-399(ML) 357-557(L)	204-364(ML) 432-592(L)	199-399(ML) 435-635(L)
	Depth					
Material	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/ Flashing	●	●	●	●	●
Sound & Volume	Buzzer sound	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount/Pole mount	Direct mount/Pole mount	Direct mount/Pole mount	Direct mount/Pole mount	Direct mount/Pole mount	Direct mount/Pole mount
Bracket	TWS45, TWA45, LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45, LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80, LB24, LW24, QZ24, SZ24, QL24, SL24	TWS45, TWA45, LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45, LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80, LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP54	IP54	IP54	IP54	IP54	IP54
Usage place	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor
Certificates	CE	CE	CE	CE	CE	CE
Customization	Customized color arrangements, Pole length adjustment, Wall mount bracket	Customized color arrangements, Pole length adjustment, Wall mount bracket	Customized color arrangements, Pole length adjustment, Wall mount bracket	Customized color arrangements, Pole length adjustment, Wall mount bracket	Customized color arrangements, Pole length adjustment, Wall mount bracket	Customized color arrangements, Pole length adjustment, Wall mount bracket
Page	P223-224	P225	P226	P227-228	P229	P230

Specification List for Ethernet LED Tower Lights



Model number		QTR50(M)L-ETN	QTR60(M)L-ETN	QTR70(M)L-ETN
Dimension (mm)	Voltage	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V
	Outdia	Ø50	Ø60	Ø70
	Height	204-364(ML) 432-592(L)	199-399(ML) 435-635(L)	199-399(ML) 357-557(L)
	Depth			
Material		Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS
Layers		1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/ Flashing	●	●	●
	Buzzer sound	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change		Yes	Yes	Yes
Mount bracket		Direct mount/Pole mount	Direct mount/Pole mount	Direct mount/Pole mount
Bracket		TWS45, TWA45, LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45, LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80, LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating		IP54	IP54	IP54
Usage place		Indoor	Indoor	Indoor
Certificates				
Customization		Customized color arrangements, Beige color, Pole length adjustment, Wall mount bracket	Customized color arrangements, Beige color, Pole length adjustment, Wall mount bracket	Customized color arrangements, Beige color, Pole length adjustment, Wall mount bracket
Page		P231-232	P233	P234

Ø45mm Ethernet LED Tower Lights

ST45(M)L-ETN



Remote control through internet or local area network

PRODUCT SPECIFICATION

ST45(M)L-ETN | ST56(M)EL-ETN
ST80(M)EL-ETN

Buzzer sounds Max.90dB at 1m
Warning sounds Max.85dB at 1m(Based on WS-Ch1)
Protection rating IP23

- Software controls the steady/flashing function
- Please refer to [Pre-recorded Sound Tone and Sound Combination Chart] for detailed information about selectable sound patterns.
- Ethernet port and power cable are provided with product
- LED Module Standard Operation: 2 layers will operate at the same time



ST45(M)L-ETN Series

ST45(M)L-ETN Ø45mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
ST45L-ETN ST45ML-ETN	1	DC12V DC24V AC110V-220V	CE	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

Light source/signal sound current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	230mA	160mA	Max.60mA
Signal sound current	350mA	230mA	Max.85mA

Customization

- Customized color arrangements
- Customized pole length available
- Wall mount bracket



Wall mount bracket
TWS45



Wall mount bracket
TWA45

Ordering Specifications

ST45L-ETN-WS	3	24	RAG	LW18
[Model number]	[Layers]	[Voltage]	[Color]	[Bracket]
ST45L-ETN-BZ	1-1 Layer	12-DC12V	● R-Red	None-Standard Bracket -LB18 -LW18 -QZ18 -SZ18
ST45L-ETN-WS	2-2 Layers	24-DC24V	● A-Amber	
ST45L-ETN-WM	3-3 Layers	110/220-AC110V-220V	● G-Green	
ST45L-ETN-WA	4-4 Layers		● B-Blue	
ST45ML-ETN-BZ	5-5 Layers		○ W-White	
ST45ML-ETN-WS				
ST45ML-ETN-WM				
ST45ML-ETN-WA				

Mount brackets are available for the pole mount type(ST45L-ETN series) only.

Mounting bracket

Standard	LB18	LW18	QZ18
Steel	Steel	ABS	ABS
SZ18	QL18	SL18	
AI	ABS	AI	

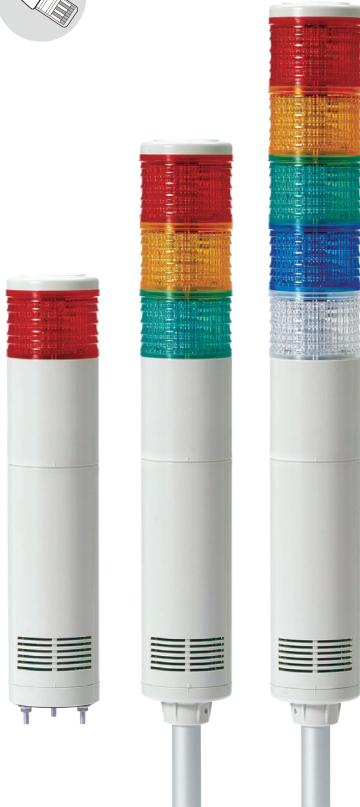
※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line :
UL1015 AWG18(0.75sq)×2C 400mm
- Power plug will be provided in case of AC type
- UTP cable : Category 5 cable
- DC type : Black output line is negative(-).

ST56(M)EL-ETN

Remote control through internet or local area network



ST56(M)EL-ETN Series

ST56(M)EL-ETN Ø56mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
ST56EL-ETN ST56MEL-ETN	1	DC12V DC24V AC110V-220V		● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

※ KC Certification: AC220V(ST56EL-ETNS)

Light source/signal sound current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	240mA	165mA	Max.65mA
Signal sound current	350mA	230mA	Max.85mA

Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable
- DC type : Black output line is negative(-).

Customization

- Customized color arrangement available
- 70mm lens height(Standard 40mm)
- Customized pole length available
- Wall mount bracket
- KC Certification is available (Model number: ST56EL-ETNS, AC220V)



Mounting bracket

Standard	LB18	LW18	QZ18
Steel	Steel	ABS	ABS
SZ18	QL18	SL18	
AI	ABS	AI	

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specifications

ST56EL-ETN-WS	-	3	-	220	-	RAG	-	QZ18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
ST56EL-ETN-BZ		1-1 Layer		12-DC12V		● R-Red		None-Standard
ST56EL-ETN-WS		2-2 Layers		24-DC24V		● A-Amber		Bracket
ST56EL-ETN-WM		3-3 Layers		110/220-AC110V-220V		● G-Green		-LB18 -LW18
ST56EL-ETN-WA		4-4 Layers				● B-Blue		-QZ18 -SZ18
ST56MEL-ETN-BZ		5-5 Layers				○ W-White		-QL18 -SL18
ST56MEL-ETN-WS								
ST56MEL-ETN-WM								
ST56MEL-ETN-WA								

Mount brackets are available for the pole mount type(ST56EL-ETN series) only.

Ø80mm Ethernet LED Tower Lights

ST80(M)EL-ETN



Remote control through internet or local area network

ST80(M)EL-ETN Ø80mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
ST80EL-ETN ST80MEL-ETN	1	DC12V DC24V AC110V-220V	-	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White



ST80(M)EL-ETN Series

Light source/signal sound current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	260mA	180mA	Max.70mA
Signal sound current	350mA	230mA	Max.85mA

Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable
- DC type : Black output line is negative(-).

Customization

- Customized color arrangements available
- 70mm lens height(Standard 40mm)
(Model number: ST80(M)L-ETN)
- Customized pole length available
- Wall mount bracket



Wall mount bracket
TWS80



Wall mount bracket
TWA80

Ordering Specifications

ST80EL-ETN-WS	3	24	RAG	QZ24
[Model number]	[Layers]	[Voltage]	[Color]	[Bracket]
ST80EL-ETN-BZ	1-1 Layer	12-DC12V	● R-Red	None-Standard Bracket -LB24 -LW24 -QZ24 -SZ24 -QL24 -SL24
ST80EL-ETN-WS	2-2 Layers	24-DC24V	● A-Amber	
ST80EL-ETN-WM	3-3 Layers	110/220-AC110V-220V	● G-Green	
ST80EL-ETN-WA	4-4 Layers		● B-Blue	
ST80MEL-ETN-BZ	5-5 Layers		○ W-White	
ST80MEL-ETN-WS				
ST80MEL-ETN-WM				
ST80MEL-ETN-WA				

Mounting bracket

Standard	LB24	LW24	QZ24
Steel	Steel	ABS	ABS
SZ24	QL24	SL24	
AI	ABS	AI	

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

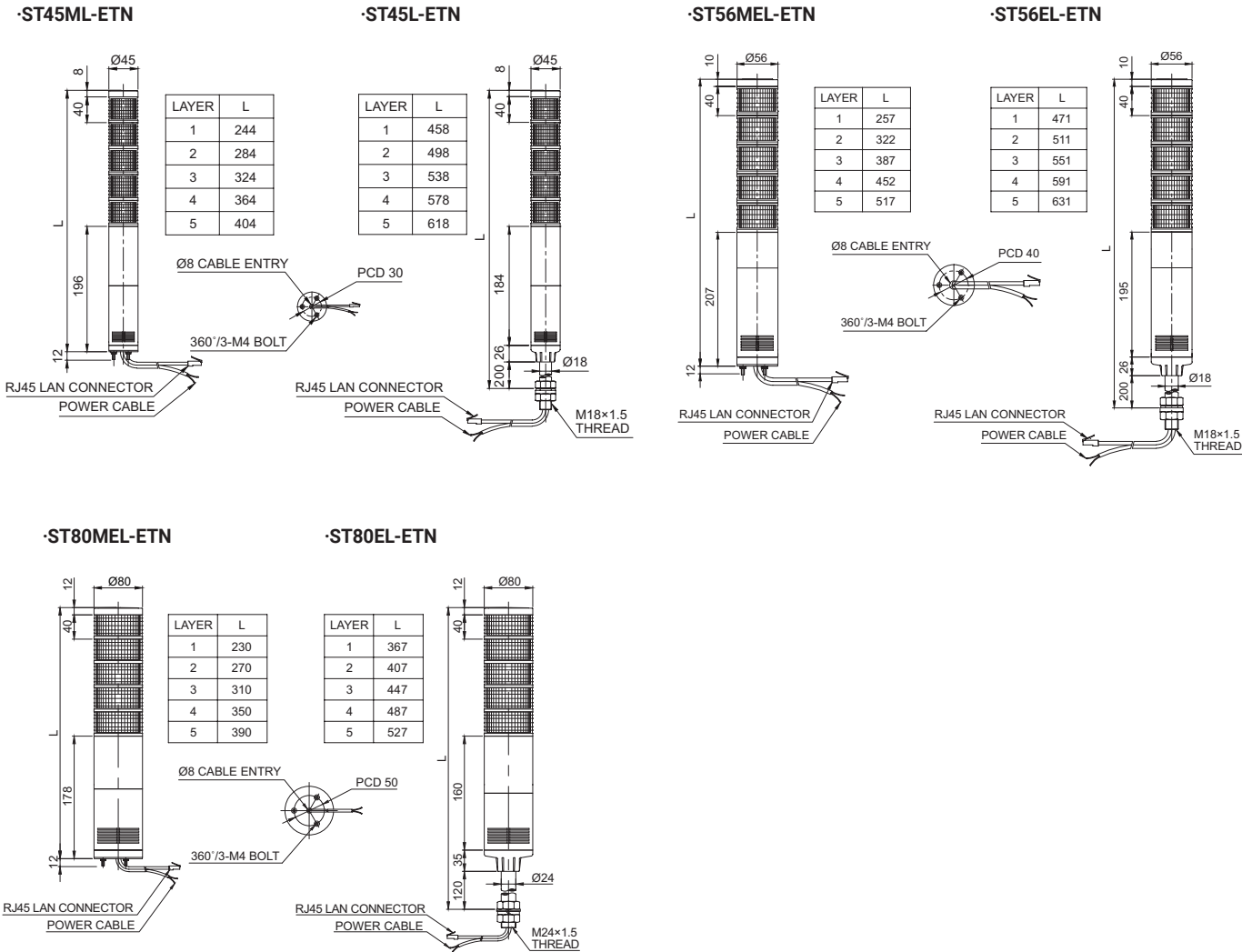
Mount brackets are available for the pole mount type(ST80EL-ETN series) only.

ST-ETN Series



Technical Diagram

Units : mm



QTG50(M)L-ETN



Remote control through internet or local area network

PRODUCT SPECIFICATION

QTG50(M)L-ETN | QTG60(M)L-ETN
QTG70(M)L-ETN

Volume Max. 85dB at 1m
Communication speed 10M/Half Duplex method
Protection rating IP54
Compliant with RoHS directive

- LED tower lamp capable of remote-control using LAN communication
- ETN tower light is a controllable LED tower light connected to the application program in the PC supported with HTTP(Web Brower) and TCP/IP protocol
- You can monitor or control the product from a remote location because it is controllable by using a web browser or application on a PC
- Provides MS runtime libraries for developers(VC++, VB, Delphi) to utilize on various applications of a PC, and a sample program (VC++) is available for testing purpose
- LED signal tower light controlled by PC application program though the network
- Ethernet cable and power cable are provided with the product
- LED Module Standard Operation: 2 layers will operate at the same time
- Supported OS(32bit/64bit) : Windows XP, Win 7, Win 10
- Supported Program : VC++, VB, Delphi(32bit only), C#(64bit only)

QTG50(M)L-ETN Ø50mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
QTG50(M)L-ETN-BZ QTGA50(M)L-ETN-BZ (BZ: 5 buzzer sound)	1	DC12V DC24V AC110V-220V	CE	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	265mA	285mA	Max.70mA
Buzzer current	215mA	245mA	Max.55mA

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions



QTG50(M)L-ETN Series

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket
TWS45



Wall mount bracket
TWA45

QTG50(M)L-ETN

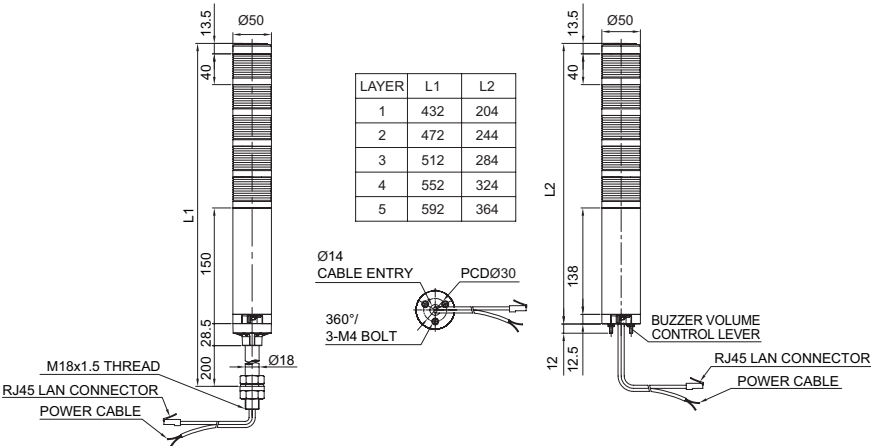


Technical Diagram

Units : mm

·QTG50L-ETN-BZ

·QTG50ML-ETN-BZ



Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

Ordering Specifications

QTG50L-ETN-BZ	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTG50L-ETN-BZ		1-1 Layer		12-DC12V		● R-Red		None-Standard Bracket
QTG50ML-ETN-BZ		2-2 Layers		24-DC24V		● A-Amber		-LB18 -LW18
QTGA50L-ETN-BZ		3-3 Layers		110/220-AC110V-220V		● G-Green		-QZ18 -SZ18
QTGA50ML-ETN-BZ		4-4 Layers				● B-Blue		-QL18 -SL18
		5-5 Layers				○ W-White		

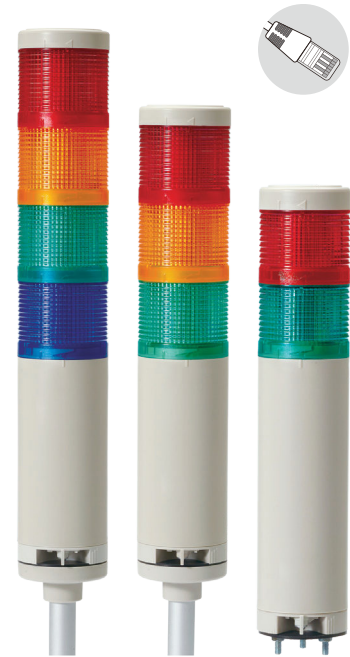
Ø60mm Ethernet LED Tower Lights

QTG60(M)L-ETN

Remote control through internet or local area network

QTG60(M)L-ETN Ø60mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
QTG60(M)L-ETN-BZ QTGA60(M)L-ETN-BZ (BZ: 5 buzzer sound)	1	DC12V DC24V AC110V-220V	CE	R-Red
	2	DC12V DC24V AC110V-220V		R-Red G-Green
	3	DC12V DC24V AC110V-220V		R-Red A-Amber G-Green
	4	DC12V DC24V AC110V-220V		R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V AC110V-220V		R-Red A-Amber G-Green B-Blue W-White



QTG60(M)L-ETN Series

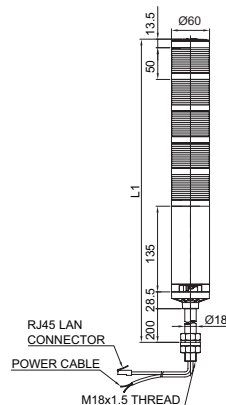
Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	285mA	300mA	Max.75mA
Buzzer current	215mA	245mA	Max.55mA

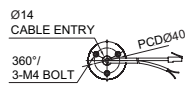
Technical Diagram

Units : mm

·QTG60L-ETN-BZ



LAYER	L1	L2
1	435	199
2	485	249
3	535	299
4	585	349
5	635	399



·QTG60ML-ETN-BZ



Wall mount bracket TWS45



Wall mount bracket TWA45

Wiring Instructions

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket

Ordering Specifications

QTG60L-ETN-BZ	3	24	RAG	LW18
[Model number]	[Layers]	[Voltage]	[Color]	[Bracket]
QTG60L-ETN-BZ	1-1 Layer	12-DC12V	R-Red	None-Standard
QTG60ML-ETN-BZ	2-2 Layers	24-DC24V	A-Amber	Bracket
QTGA60L-ETN-BZ	3-3 Layers	110/220-AC110V-220V	G-Green	-LB18 -LW18
QTGA60ML-ETN-BZ	4-4 Layers		B-Blue	-QZ18 -SZ18
	5-5 Layers		W-White	-QL18 -SL18

Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line
 - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

Mounting bracket

Standard	LB18	LW18	QZ18
Steel	Steel	ABS	ABS
SZ18	QL18	SL18	
AI	ABS	AI	

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

QTG70(M)L-ETN



 **QTG70(M)L-ETN** Ø70mm Ethernet LED Tower Lights



QTC50(M)L-ETN



Remote control through internet or local area network

PRODUCT SPECIFICATION

QTC50(M)L-ETN | QTC60(M)L-ETN
QTC70(M)L-ETN

Volume Max. 85dB at 1m
Communication speed 10M/Half Duplex method
Protection rating IP54
Compliant with RoHS directive

- LED tower lamp capable of remote-control using LAN communication
- ETN tower light is a controllable LED tower light connected to the application program in the PC supported with HTTP(Web Browser) and TCP/IP protocol
- You can monitor or control the product from a remote location because it is controllable by using a web browser or application on a PC
- Provides MS runtime libraries for developers(VC ++, VB, Delphi) to utilize on various applications of a PC, and a sample program (VC++) is available for testing purpose
- LED signal tower light controlled by PC application program though the network
- Ethernet cable and power cable are provided with the product
- LED Module Standard Operation: 2 layers will operate at the same time
- Supported OS(32bit/64bit) : Windows XP, Win 7, Win 10
- Supported Program : VC++, VB, Delphi(32bit only), C#(64bit only)



QTC50(M)L-ETN Series

QTC50(M)L-ETN Ø50mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
	1	DC12V DC24V AC110V-220V		● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
QTC50(M)L-ETN-BZ QTC60(M)L-ETN-BZ (BZ: 5 buzzer sounds)	3	DC12V DC24V AC110V-220V	CE	● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	265mA	285mA	Max.70mA
Buzzer current	215mA	245mA	Max.55mA

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18
Steel	Steel	ABS	ABS	Al	ABS

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



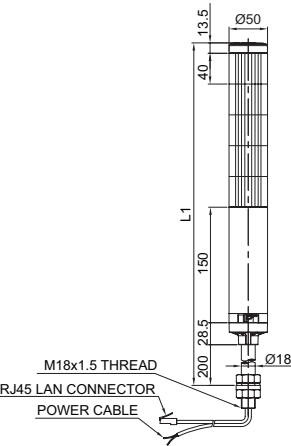
QTC50(M)L-ETN



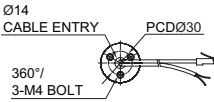
Technical Diagram

Units : mm

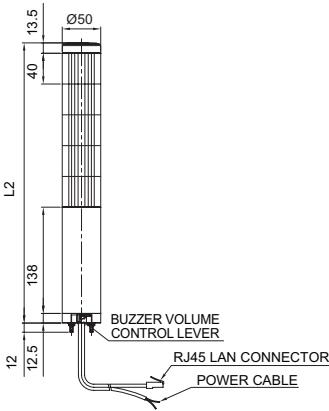
·QTC50L-ETN-BZ



LAYER	L1	L2
1	432	204
2	472	244
3	512	284
4	552	324
5	592	364



·QTC50ML-ETN-BZ



Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

Ordering Specifications

QTC50L-ETN-BZ	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTC50L-ETN-BZ		1-1 Layer		12-DC12V		● R-Red		None-Standard
QTC50ML-ETN-BZ		2-2 Layers		24-DC24V		● A-Amber		Bracket
QTC50L-ETN-BZ		3-3 Layers		110/220-AC110V-220V		● G-Green		-LB18 -LW18
QTC50ML-ETN-BZ		4-4 Layers				● B-Blue		-QZ18 -SZ18
		5-5 Layers				○ W-White		-QL18 -SL18

Ø60mm Ethernet LED Tower Lights

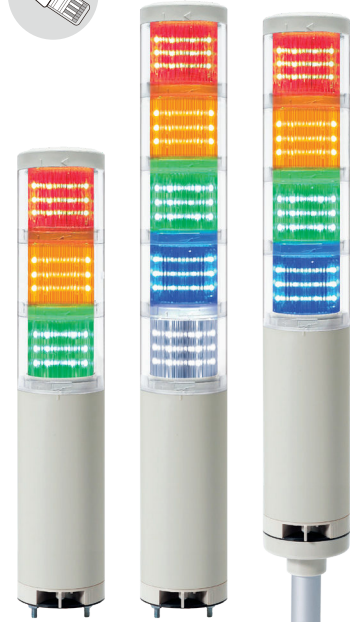
QTC60(M)L-ETN



Remote control through internet or local area network

QTC60(M)L-ETN Ø60mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
QTC60(M)L-ETN-BZ QTCA60(M)L-ETN-BZ (BZ: 5 buzzer sounds)	1	DC12V DC24V AC110V-220V	CE	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White



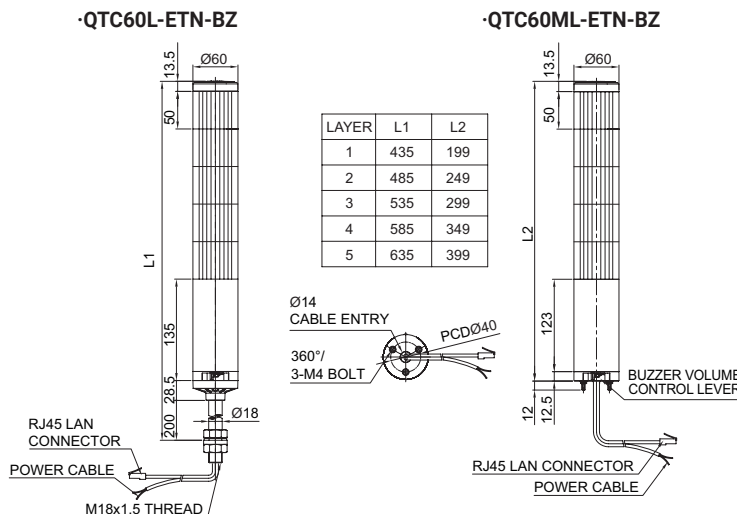
QTC60(M)L-ETN Series

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	285mA	300mA	Max.75mA
Buzzer current	215mA	245mA	Max.55mA

Technical Diagram

Units : mm



Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

Ordering Specifications

QTC60L-ETN-BZ	3	24	RAG	LW18
[Model number]	[Layers]	[Voltage]	[Color]	[Bracket]
QTC60L-ETN-BZ	1-1 Layer	12-DC12V	● R-Red	None-Standard
QTC60ML-ETN-BZ	2-2 Layers	24-DC24V	● A-Amber	Bracket
QTCA60L-ETN-BZ	3-3 Layers	110/220-AC110V-220V	● G-Green	-LB18 -LW18
QTCA60ML-ETN-BZ	4-4 Layers		● B-Blue	-QZ18 -SZ18
	5-5 Layers		○ W-White	-QL18 -SL18

Mounting bracket

Standard	LB18	LW18	QZ18
Steel	Steel	ABS	ABS
SZ18	QL18	SL18	
AI	ABS	AI	

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket TWS45

Wall mount bracket TWA45

QTC70(M)L-ETN

 IP54	 +50°C -30°C	 BUZZER	 85dB	 RoHS
---	---	---	---	---



Mounting bracket

Standard	LB24	LW24	QZ24
			
Steel	Steel	ABS	ABS
SZ24	QL24	SL24	
			
AI	ABS	AI	

Customization

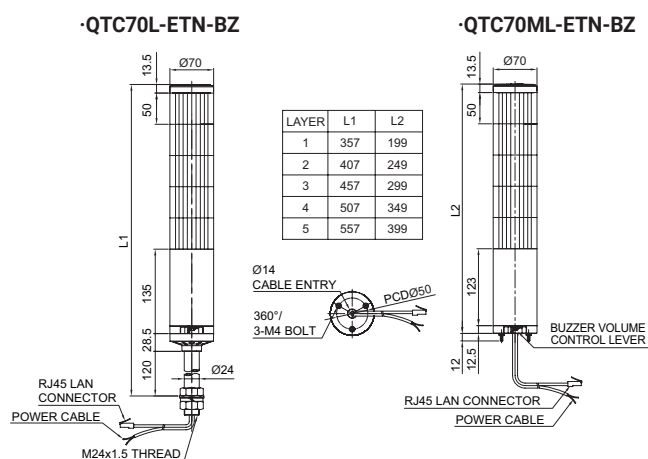
- Customized color arrangements
- Customized pole length available
- Wall mount bracket



Model number	Layers	Voltage	Certificates	Color
QTC70(M)L-ETN-BZ QTCA70(M)L-ETN-BZ (BZ: 5 buzzer sounds)	1	DC12V DC24V AC110V-220V		R-Red
	2	DC12V DC24V AC110V-220V		R-Red G-Green
	3	DC12V DC24V AC110V-220V		R-Red A-Amber G-Green
	4	DC12V DC24V AC110V-220V		R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V AC110V-220V		R-Red A-Amber G-Green B-Blue W-White

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	285mA	300mA	Max.75mA
Buzzer current	215mA	245mA	Max.55mA

Units : mm



- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

QTC70L-ETN-BZ	3	24	RAG	LW24
[Model number]	[Layers]	[Voltage]	[Color]	[Bracket]
QTC70L-ETN-BZ	1-1 Layer	12-DC12V	● R-Red	None-Standard
QTC70ML-ETN-BZ	2-2 Layers	24-DC24V	● A-Amber	Bracket
QTCA70L-ETN-BZ	3-3 Layers	110/220-AC110V-220V	● G-Green	-LB24 -LW24
QTCA70ML-ETN-BZ	4-4 Layers		● B-Blue	-QZ24 -SZ24
	5-5 Layers		○ W-White	-QL24 -SL24

Ø50mm Ethernet LED Tower Lights

QTR50(M)L-ETN



Remote control through internet or local area network

PRODUCT SPECIFICATION

QTR50(M)L-ETN | QTR60(M)L-ETN
QTR70(M)L-ETN

Volume Max. 85dB at 1m
Communication speed 10M/Half Duplex method
Protection rating IP54
Compliant with RoHS directive

- LED tower lamp capable of remote-control using LAN communication
- ETN tower light is a controllable LED tower light connected to the application program in the PC supported with HTTP(Web Brower) and TCP/IP protocol
- You can monitor or control the product from a remote location because it is controllable by using a web browser or application on a PC
- Provides MS runtime libraries for developers(VC ++, VB, Delphi) to utilize on various applications of a PC, and a sample program (VC++) is available for testing purpose
- LED signal tower light controlled by PC application program though the network
- Ethernet cable and power cable are provided with the product
- LED Module Standard Operation: 2 layers will operate at the same time
- Supported OS(32bit/64bit) : Windows XP, Win 7, Win 10
- Supported Program : VC++, VB, Delphi(32bit only), C#(64bit only)



QTR50(M)L-ETN Series

QTR50(M)L-ETN Ø50mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
QTR50(M)L-ETN-BZ QTRA50(M)L-ETN-BZ (BZ: 5 buzzer sounds)	1	DC12V DC24V AC110V-220V	-	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	265mA	285mA	Max.70mA
Buzzer current	215mA	245mA	Max.55mA

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



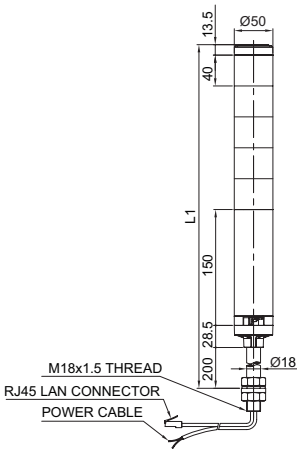
QTR50(M)L-ETN



Technical Diagram

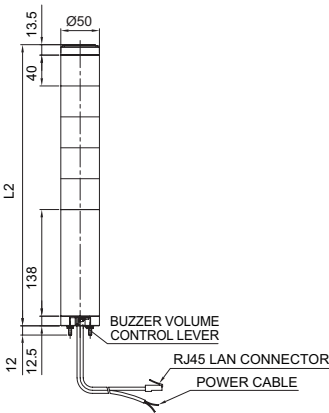
Units : mm

·QTR50L-ETN-BZ



LAYER	L1	L2
1	432	204
2	472	244
3	512	284
4	552	324
5	592	364

·QTR50ML-ETN-BZ



Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

Ordering Specifications

QTR50L-ETN-BZ	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTR50L-ETN-BZ		1-1 Layer		12-DC12V		● R-Red		None-Standard
QTR50ML-ETN-BZ		2-2 Layers		24-DC24V		● A-Amber		Bracket
QTRA50L-ETN-BZ		3-3 Layers		110/220-AC110V-220V		● G-Green		-LB18 -LW18
QTRA50ML-ETN-BZ		4-4 Layers				● B-Blue		-QZ18 -SZ18
		5-5 Layers				○ W-White		-QL18 -SL18

QTR60(M)L-ETN



 **QTR60(M)L-ETN** Ø60mm Ethernet LED Tower Lights

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QTR70(M)L-ETN



 QTR70(M)L-ETN Ø70mm Ethernet LED Tower Lights



Mounting bracket

Standard	LB24	LW24	QZ24
			
Steel	Steel	ABS	ABS
SZ24	QL24	SL24	
			
AI	ABS	AI	

Customization

- Customized color arrangements
- Customized pole length available
- Wall mount bracket

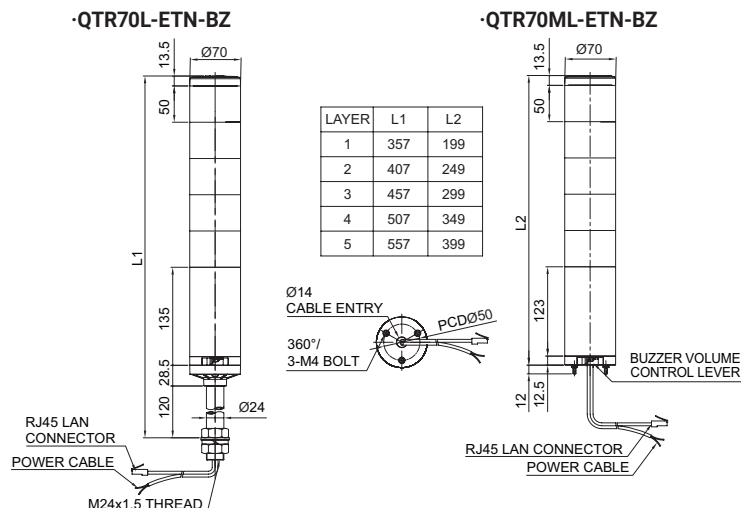


Wall mount
bracket
TWA80

Model number	Layers	Voltage	Certificates	Color
QTR70(M)L-ETN-BZ QTRA70(M)L-ETN-BZ (BZ: 5 buzzer sounds)	1	DC12V DC24V AC110V-220V	-	 R-Red
	2	DC12V DC24V AC110V-220V		 R-Red  G-Green
	3	DC12V DC24V AC110V-220V		 R-Red  A-Amber  G-Green
	4	DC12V DC24V AC110V-220V		 R-Red  A-Amber  G-Green  B-Blue
	5	DC12V DC24V AC110V-220V		 R-Red  A-Amber  G-Green  B-Blue  W-White

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	285mA	300mA	Max.75mA
Buzzer current	215mA	245mA	Max.55mA

Units : mm



- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

QTR70L-ETN-BZ	3	24	RAG	LW24
[Model number]	[Layers]	[Voltage]	[Color]	[Bracket]
QTR70L-ETN-BZ	1-1 Layer	12-DC12V	● R-Red	None-Standard
QTR70ML-ETN-BZ	2-2 Layers	24-DC24V	● A-Amber	Bracket
QTRA70L-ETN-BZ	3-3 Layers	110/220-AC110V-220V	● G-Green	-LB24 -LW24
QTRA70ML-ETN-BZ	4-4 Layers		● B-Blue	-QZ24 -SZ24
	5-5 Layers		○ W-White	-QL24 -SL24

Wireless Network System

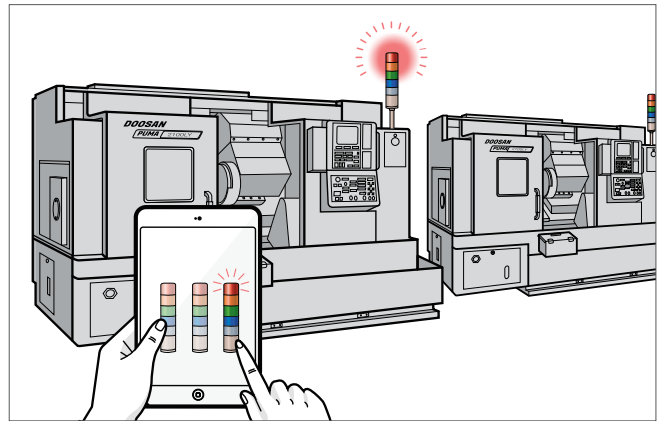
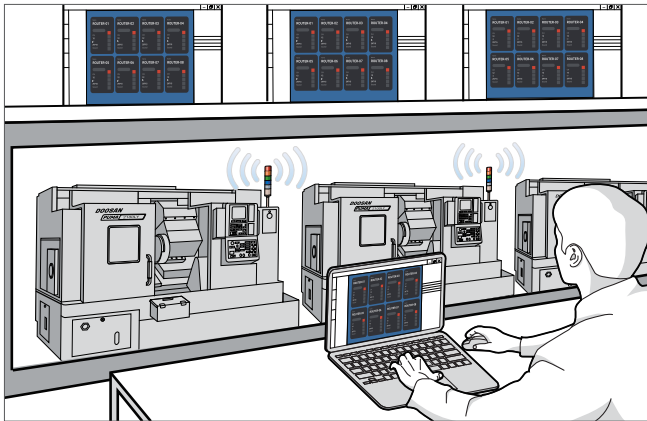
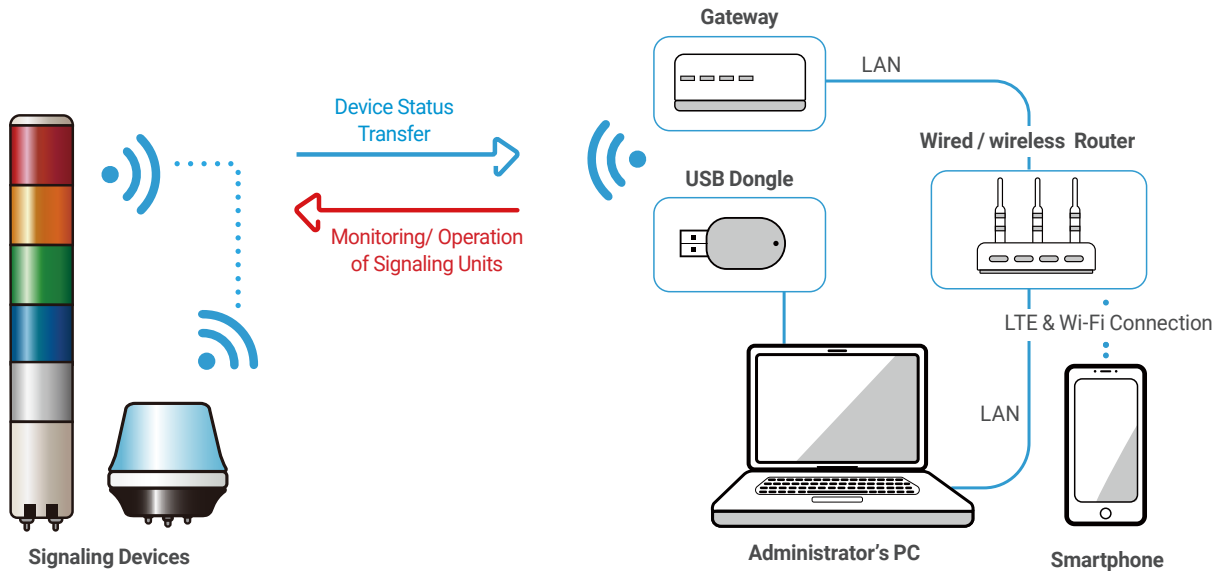


Technical Information
Product Specifications
Product Information

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Wireless Network System Application

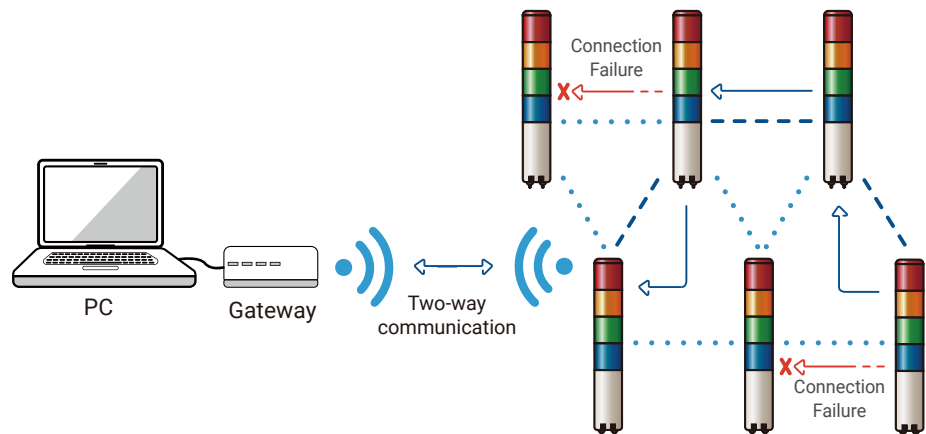
Wireless network system uses wireless network to remotely monitor and control the operation status of a signaling device through a PC or smartphone. By applying wireless communication between production equipment, users can build an advanced production system.



- Uses a Mesh Topology that operates in 2.4 GHz short-range wireless technology which ensures the communication reliability in harsh environments
- Multi-hop function of the signaling device enables stable long-distance communication (with up to 100M between devices)

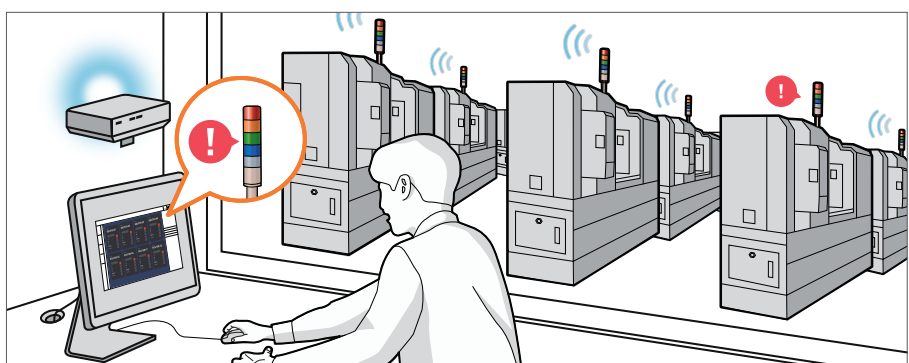
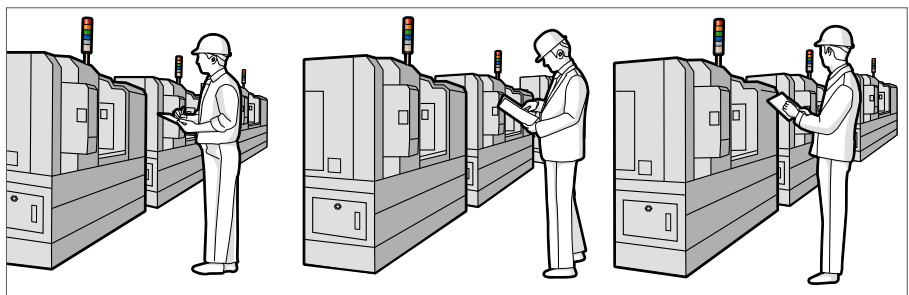
Routing function that automatically navigates the optimum communication path

- Mesh network selects the strongest signal path for traffic and automatically steers signals around interference to ensure high availability of mesh links.
- Once there's a problem with wireless communication, the signaling device will find a new communication route in order to maintain smooth communication.

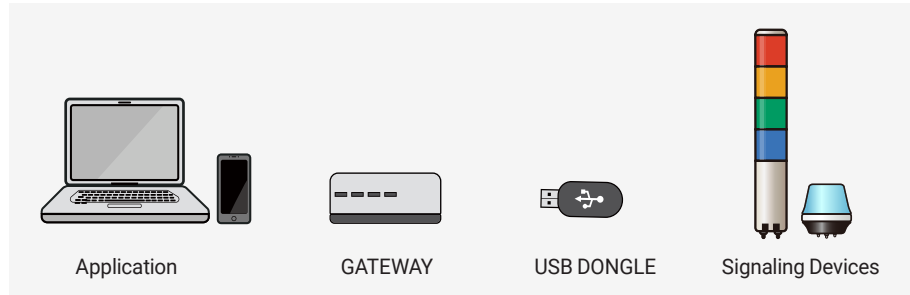


Building an advanced production network system with a low cost

- Combining a new network system to existing production lines can be easily done by connecting wireless signal devices.
- Cost-effectiveness by requiring no additional cable when change the layout of production lines.



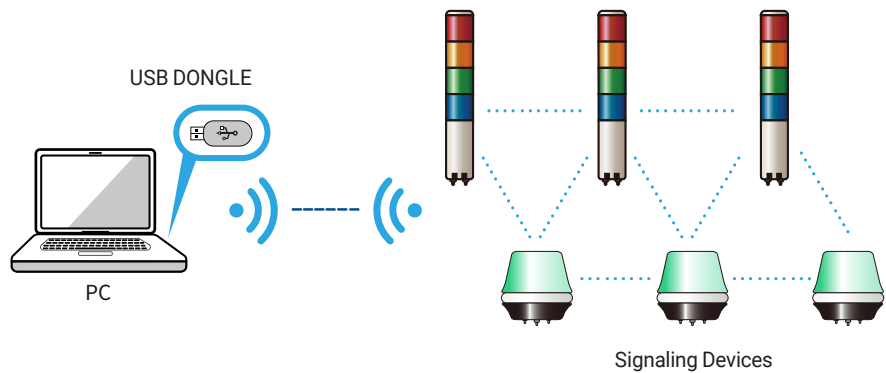
Components



1. Connection Types

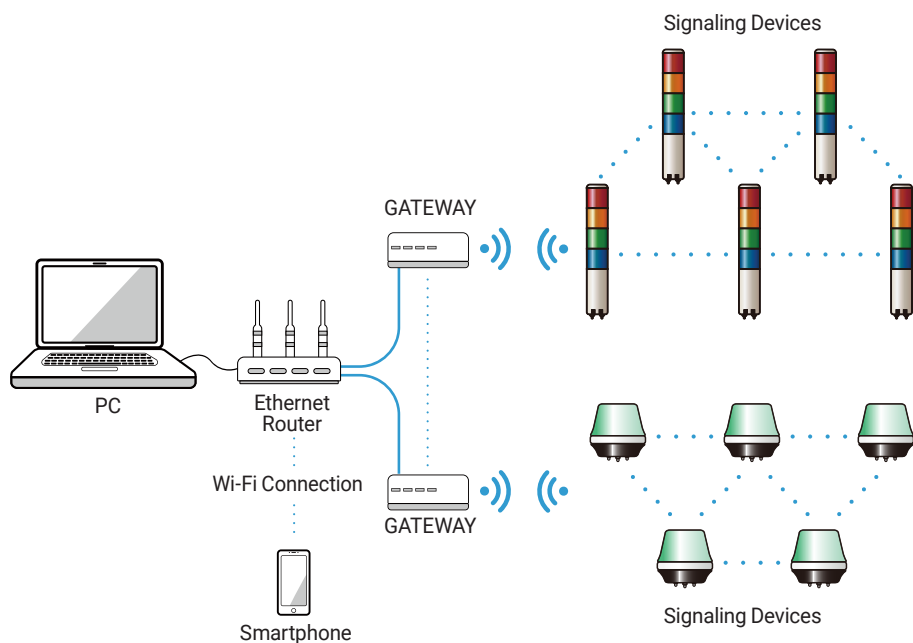
1) Connection via USB Dongle

- Easy installation and operation by plugging it to a PC, suitable for a single or small-scaled wireless network connection needs.(controls and monitors up to 32 wireless devices)



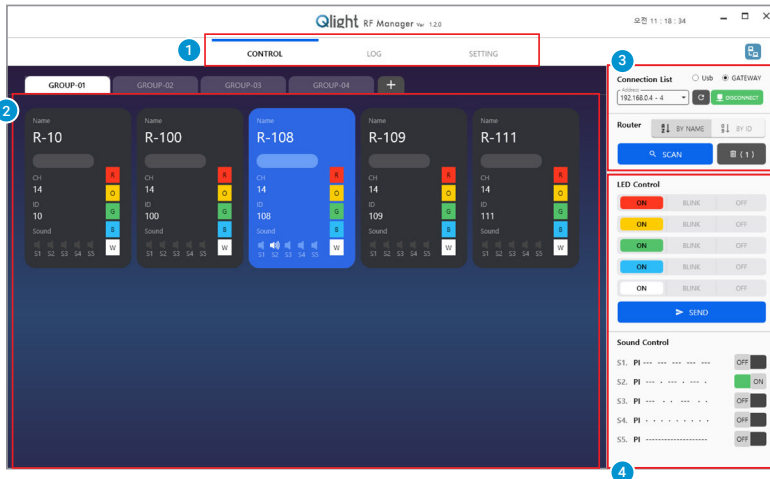
2) Connection via GATEWAY

- Connecting multiple gateways allow 768 wireless signaling devices to be connected to the network, suitable for large-scaled production facilities.
- Can monitor or control the status of signaling devices with smartphones.



2. Connection Instructions

• Basic screen description



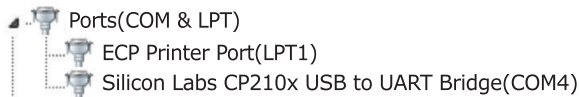
1) Menu

- Connection: Control wireless devices through USB Dongle and Gateway
- LOG: Save log data and use the data to check various information such as operation rate and productivity.
- SETTING: USB Dongle, Gateway, wireless device settings

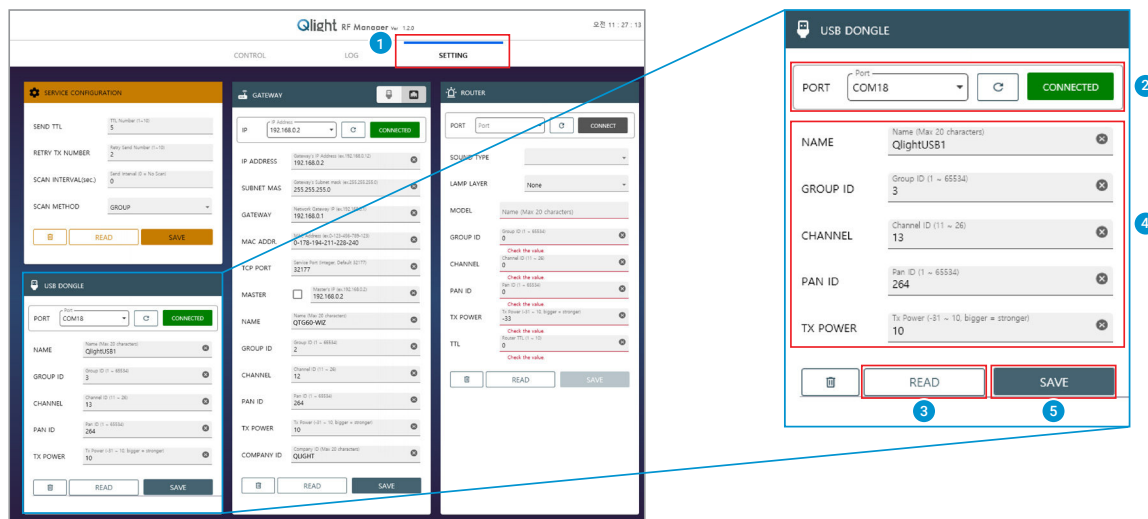
- 2) Device Viewer: Check and select the connection status of wireless devices
- 3) Function to connect USB DONGLE and Gateway and scan wireless devices
- 4) Control selected devices through the device viewer window

1) USB Dongle

- PC program allows you to configure wireless devices such as gateways, USB dongles and signaling devices, and can also monitor or control the status of the signaling devices.
- Check the COM port after the USB Dongle is connected(RS-232).
- Click Start -> Control Panel -> Device Manager -> Port (COM & LPT)



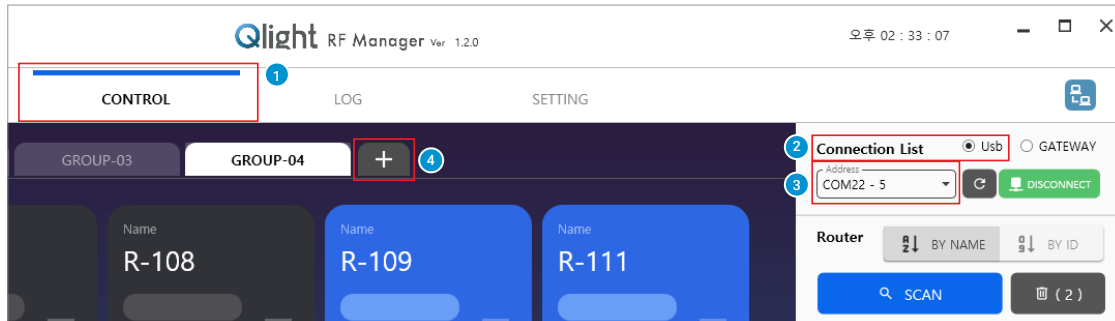
• USB DONGLE SETTING



- 1) Select the SETTING menu and set up the USB DONGLE.
- 2) Check and select the COM port of your PC and press CONNECT to connect to the USB DONGLE.
- 3) Press the READ button to load the RF information of the currently set USB DONGLE.
- 4) Check and modify the RF information of the USB DONGLE.
- 5) Click the SAVE button to save the modified information.

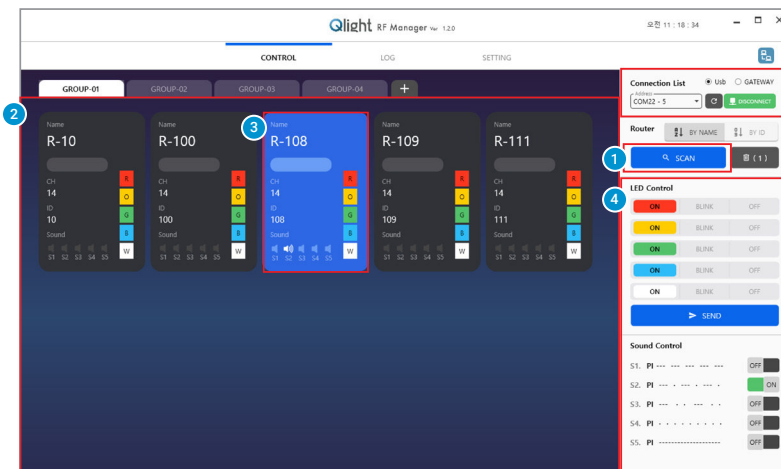
Wireless Network System Application

• USB DONGLE CONNECTION



- 1 Select the CONTROL menu.
- 2 Select USB from the CONNECTION LIST.
- 3 Check and select the COM port of your PC and press CONNECT to connect to the USB DONGLE.
- 4 When connecting multiple USB DONGLES, add GROUP.

• DEVICE MONITORING & CONTROL



- 1 After connecting to the USB DONGLE, press the SCAN button to connect the wireless device.
- 2 The wirelessly connected device will appear on the screen.
- 3 Select the device you need to control.
- 4 Control selected devices.

2) Gateway - Setting and Usage

- The PC program allows you to configure wireless devices such as gateways, USB dongles and signaling devices, and can also monitor or control the status of the signaling devices.
- Setting and Usage
 - The PC program allows you to configure wireless devices such as gateways, USB dongles and signaling devices, and can also monitor or control the status of the signaling devices.
 - With the Gateway linked to the Ethernet Network users can check or control the operation status of devices by smartphone. The control PC uses IIS function to enable access to the smartphone in WINDOW XP or later versions.

IIS?

What is IIS? IIS stands for Microsoft's Internet information Services which is a WINDOWS service used for web service. With IIS, services such as FTP, SMTP, NNTP, and HTTP/ HTTPS are available.

• GATEWAY SETTING

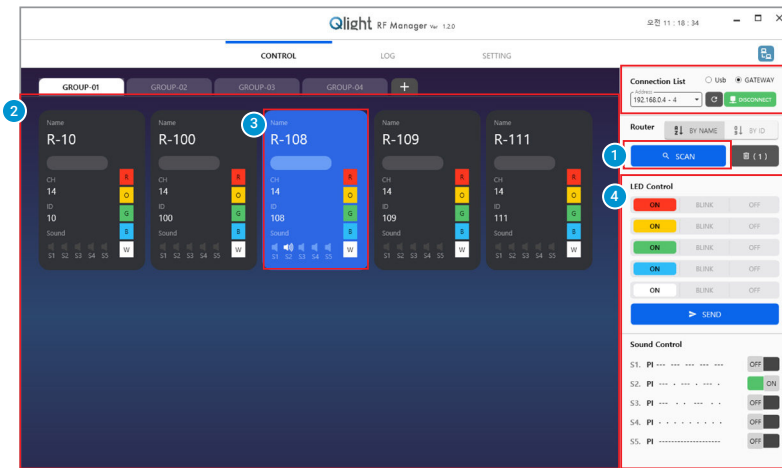
- Select the SETTING menu and set the GATEWAY.
- After setting the IP of the gateway to be connected, click CONNECT to connect to the gateway.
- Press the READ button to load information on the currently set GATEWAY.
- Check and modify GATEWAY's default information.
- Click the SAVE button to save the modified information.

• GATEWAY CONNECTION

- Select the CONTROL menu.
- Select GATEWAY from CONNECTION LIST.
- Select the IP of the GATEWAY to connect and press CONNECT to connect to the GATEWAY.
- When connecting multiple GATEWAYS, add GROUP.

Wireless Network System Application

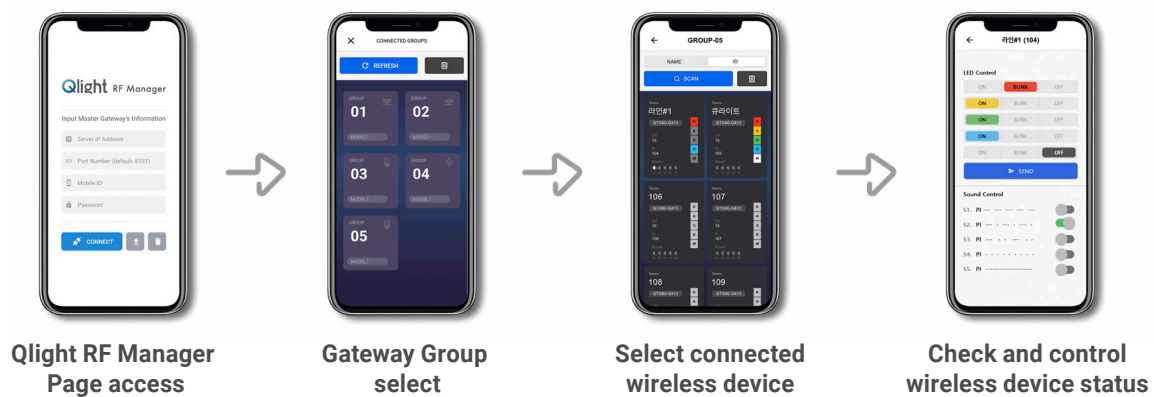
• GATEWAY CONNECTION



- 1 After connecting to the GATEWAY, press the SCAN button to connect the wireless device.
- 2 The wirelessly connected device will appear on the screen.
- 3 Select the device you need to control.
- 4 Control selected devices.

How to use your smartphone

- To use a smartphone, you must link the Gateway with a wired/wireless router.
- Access the Qlight RF Manager page on your smartphone using the IP address of the administrator PC on which IIS is set.
- After logging in through the login page, select the connected gateway.
- Select a signal information device connected to the selected gateway to monitor or control the device.
- For detailed settings, please contact the manufacturer.



Specification List For Wireless Products

Wireless LED Tower Lights



Model number		QTG60ML-WIZ	QTG60L-WIZ	QTG70ML-WIZ	QTG70L-WIZ
Dimension (mm)	Voltage	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V
	Outdia	Ø60	Ø60	Ø70	Ø70
	Height	199-399	435-625	199-399	357-557
	Depth				
Material		Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS
Layers		1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/ Flashing	●	●	●	●
	Buzzer sound	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m
Sound & volume	Signal sounds				
	Layer color change	Yes	Yes	Yes	Yes
Mount bracket		Direct mount	Pole mount	Direct mount	Pole mount
Bracket		TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating		IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)
Usage place		Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use
Certificates		KC, CE, FCC	KC, CE, FCC	KC, CE, FCC	KC, CE, FCC
Customization		High-volume buzzer module, Wall mount bracket	High-volume buzzer module, Pole length adjustment,	High-volume buzzer module, Wall mount bracket	High-volume buzzer module, Pole length adjustment,
Transistor		NPN	NPN	NPN	NPN
Communication		Wireless	Wireless	Wireless	Wireless
Page		P244	P245	P246	P247

Wireless LED Signal Lights



Model number		QMCL125-WIZ	WIZ32 (USB Dongle)	GW768(GATEWAY)
Dimension (mm)	Voltage	DC12V, DC24V	USB 5V	DC12V-24V AC110V-220V
	Outdia	Ø116	49x23	151x80
	Height	110	10	48
	Depth			
Material		Lens-PC Housing-ABS	Cover-ABS	Housing-ABS
Sound & volume	Buzzer	Max. 80dB at 1m		
	Mount bracket	Direct mount		
Protection rating		IP65		
Usage place		Indoor/Outdoor Use	-	-
Certificates		CE, FCC	KC, CE, FCC	KC, CE, FCC
Customization		Wall mount bracket	-	-
Transistor		NPN	-	-
Communication		Wireless	Wireless	Wireless
Page		P252	P254	P255

Wireless LED Steady/ Flashing Tower Light

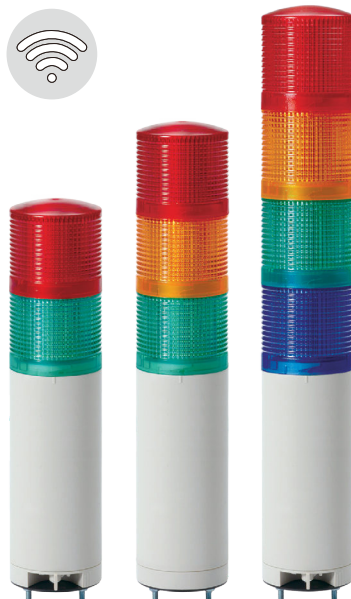
QTG60ML-WIZ



Can remotely monitor and control the status of tower lights using a PC or smartphone



QTG60ML-WIZ Series



QTGA60ML-WIZ Series

PRODUCT SPECIFICATION

QTG60(M)L-WIZ
QTG70(M)L-WIZ

Materials Lens-PC, Housing-ABS

Ambient operating temperature -30°C to +50°C

Volume Max. 85dB at 1m

Protection rating IP54/IP65

Compliant with RoHS directive

- Allows you to build an advanced production network system with a low cost
- Uses a Mesh Topology that operates in 2.4 GHz Short-Range wireless technology which ensures the communication reliability in harsh environments
- Multi-hop function of the signaling device enables a stable long-distance communication(with up to 100M between devices)
- Cost-effective by requiring no additional cable when change the layout of production lines
- Wireless communication protocol : Zigbee(IEEE802.15.4)



QTG60ML-WIZ Ø60mm Direct Mount, LED Steady/Flashing Type

Model number	Layers	Voltage	Certificates	Weight	Color
QTG60ML-WIZ Steady	1	DC12V		0.32kg	● R-Red
		DC24V		0.32kg	
		AC110V-220V		0.36kg	
QTG60ML-WIZ-BZ Steady w/built-in buzzer	2	DC12V		0.37kg	● R-Red ● G-Green
		DC24V		0.37kg	
		AC110V-220V		0.41kg	
QTG60MLF-WIZ Steady/Flashing	3	DC12V	CE FC	0.42kg	● R-Red ● A-Amber ● G-Green
		DC24V		0.42kg	
		AC110V-220V		0.46kg	
QTGA60ML-WIZ Steady	4	DC12V		0.47kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		DC24V		0.47kg	
		AC110V-220V		0.51kg	
QTGA60MLF-WIZ Steady/Flashing	5	DC12V		0.52kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
		DC24V		0.52kg	
		AC110V-220V		0.56kg	

※ AC type model has a free-voltage range of 100V-240V

※ KC Certification: DC24V, CE RED compliant: DC24V, AC110V-220V, FCC Complaint: DC24V, AC110V-220V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	130mA	85mA	Max.65mA
Buzzer current	35mA	30mA	Max.40mA

Customization

- High volume buzzer option can be fitted to the top of the product(Lens should be within 4 layers)
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount



Wall mount bracket TWS45



Wall mount bracket TWA45

Wiring Instructions

- External power line
UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line
UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wiring with External Contact and transistor

Ordering Specifications

QTG60ML-WIZ	-	3	-	110/220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QTG60ML-WIZ		1-1 Layer		12-DC12V		● R-Red
QTG60ML-WIZ-BZ		2-2 Layers		24-DC24V		● A-Amber
QTG60MLF-WIZ		3-3 Layers		110/220-AC110V-220V		● G-Green
QTG60MLF-WIZ-BZ		4-4 Layers				● B-Blue
QTGA60ML-WIZ		5-5 Layers				○ W-White
QTGA60ML-WIZ-BZ						
QTGA60MLF-WIZ						
QTGA60MLF-WIZ-BZ						

Wireless LED Steady/ Flashing Tower Light

QTG60L-WIZ



QTG60L-WIZ Ø60mm Pole mount, LED Steady/Flashing Type

Model number	Layers	Voltage	Certificates	Weight	Color			
QTG60L-WIZ Steady	1	DC12V DC24V AC110V-220V	 	0.50kg 0.50kg 0.53kg	 R-Red			
QTG60L-WIZ-BZ Steady w/built-in buzzer	2	DC12V DC24V AC110V-220V		0.55kg	 R-Red			
QTG60LF-WIZ Steady/Flashing				0.55kg 0.58kg	 G-Green			
QTG60LF-WIZ-BZ Steady/Flashing w/ built-in buzzer	3	DC12V DC24V AC110V-220V		0.60kg 0.60kg 0.63kg	 R-Red  A-Amber  G-Green			
QTGA60L-WIZ Steady	4			DC12V DC24V AC110V-220V		0.65kg	 R-Red	
QTGA60L-WIZ-BZ Steady w/built-in buzzer						0.65kg 0.68kg	 A-Amber  G-Green  B-Blue	
QTGA60LF-WIZ Steady/Flashing		5				DC12V DC24V AC110V-220V		0.70kg
QTGA60LF-WIZ-BZ Steady/Flashing w/ built-in buzzer	0.70kg 0.73kg			 A-Amber  G-Green  B-Blue  W-White				

※ AC type model has a free-voltage range of 100V-240V

※ KC Certification: DC24V, CE RED compliant: DC24V, AC110V-220V, FCC Complaint: DC24V, AC110V-220V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	130mA	85mA	Max.65mA
Buzzer current	35mA	30mA	Max.40mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	AI	ABS	AI

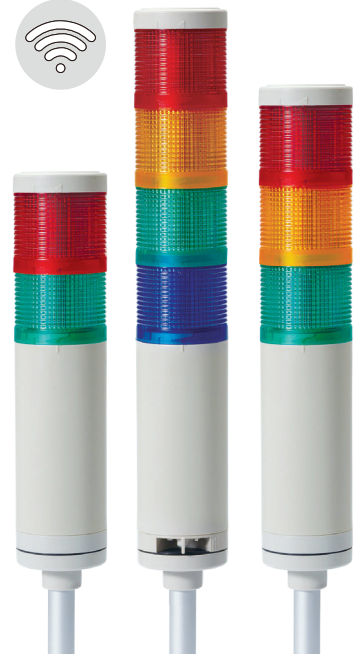
※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Customization

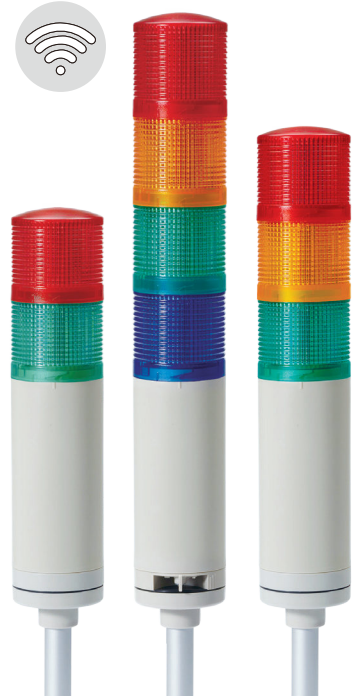
- Customized pole length available
- High volume buzzer option can be fitted to the top of the product(Lens should be within 4 layers)

Ordering Specifications

QTG60L-WIZ	-	3	-	110/220	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTG60L-WIZ		1-1 Layer		12-DC12V		● R-Red		None-Standard
QTG60L-WIZ-BZ		2-2 Layers		24-DC24V		● A-Amber		Bracket
QTG60LF-WIZ		3-3 Layers		110/220-AC110V-220V		● G-Green		-LB18 -LW18
QTG60LF-WIZ-BZ		4-4 Layers				● B-Blue		-QZ18 -SZ18
QTGA60L-WIZ		5-5 Layers				○ W-White		-QL18 -SL18
QTGA60L-WIZ-BZ								
QTGA60LF-WIZ								
QTGA60LF-WIZ-BZ								



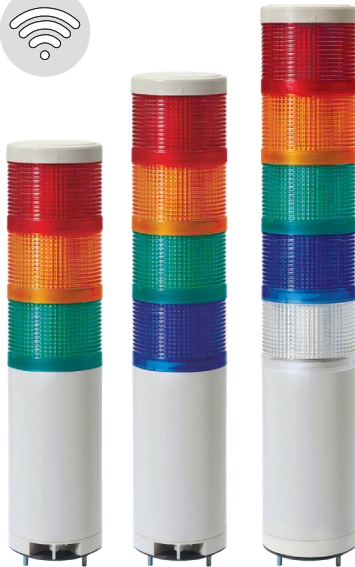
QTG60L-WIZ Series



QTGA60L-WIZ Series

Wireless LED Steady/ Flashing Tower Light

QTG70ML-WIZ



QTG70ML-WIZ Series

QTG70ML-WIZ Ø70mm Direct mount, LED Steady/Flashing Type

Model number	Layers	Voltage	Certificates	Weight	Color
QTG70ML-WIZ Steady	1	DC12V DC24V AC110V-220V		0.38kg 0.38kg 0.41kg	● R-Red
QTG70ML-WIZ-BZ Steady w/built-in buzzer	2	DC12V DC24V AC110V-220V		0.44kg 0.44kg 0.47kg	● R-Red ● G-Green
QTG70MLF-WIZ Steady/Flashing	3	DC12V DC24V AC110V-220V	CE	0.50kg 0.50kg 0.53kg	● R-Red ● A-Amber ● G-Green
QTG70MLF-WIZ-BZ Steady/Flashing w/ built-in buzzer	4	DC12V DC24V AC110V-220V	CE FCC	0.56kg 0.56kg 0.59kg	● R-Red ● A-Amber ● G-Green ● B-Blue
QTGA70ML-WIZ Steady	5	DC12V DC24V AC110V-220V		0.62kg 0.62kg 0.65kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

※ AC type model has a free-voltage range of 100V-240V

※ KC Certification: DC24V, CE RED compliant: DC24V, AC110V-220V, FCC Complaint: DC24V, AC110V-220V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	130mA	85mA	Max.65mA
Buzzer current	35mA	30mA	Max.40mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Customization

- High volume buzzer option can be fitted to the top of the product(Lens should be within 4 layers)
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount



Wall mount bracket TWS80



Wall mount bracket TWA80

Ordering Specifications

QTG70ML-WIZ	-	3	-	110/220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QTG70ML-WIZ		1-1 Layer		12-DC12V		● R-Red
QTG70ML-WIZ-BZ		2-2 Layers		24-DC24V		● A-Amber
QTG70MLF-WIZ		3-3 Layers		110/220-AC110V-220V		● G-Green
QTG70MLF-WIZ-BZ		4-4 Layers				● B-Blue
QTGA70ML-WIZ		5-5 Layers				○ W-White
QTGA70ML-WIZ-BZ						
QTGA70MLF-WIZ						
QTGA70MLF-WIZ-BZ						

Wireless LED Steady/ Flashing Tower Light

Wireless LED Steady/ Flashing Tower Light



QTG70L-WIZ Ø70mm Pole Mount, LED Steady/Flashing Type

Model number	Layers	Voltage	Certificates	Weight	Color
QTG70L-WIZ Steady	1	DC12V DC24V AC110V-220V	 	0.60kg 0.60kg 0.63kg	 R-Red
QTG70L-WIZ-BZ Steady w/built-in buzzer	2	DC12V DC24V AC110V-220V		0.66kg 0.66kg 0.69kg	 R-Red  G-Green
QTG70LF-WIZ Steady/Flashing					
QTG70LF-WIZ-BZ Steady/Flashing w/ built-in buzzer	3	DC12V DC24V AC110V-220V		0.72kg 0.72kg 0.75kg	 R-Red  A-Amber  G-Green
QTGA70L-WIZ Steady	4	DC12V DC24V AC110V-220V		0.78kg 0.78kg 0.81kg	 R-Red  A-Amber  G-Green  B-Blue
QTGA70L-WIZ-BZ Steady w/built-in buzzer					
QTGA70LF-WIZ Steady/Flashing	5	DC12V DC24V AC110V-220V		0.84kg 0.84kg 0.87kg	 R-Red  A-Amber  G-Green  B-Blue  W-White
QTGA70LF-WIZ-BZ Steady/Flashing w/ built-in buzzer					

※ AC type model has a free-voltage range of 100V-240V

※ KC Certification: DC24V, CE RED compliant: DC24V, AC110V-220V, FCC Complaint: DC24V, AC110V-220V



QTG70L-WIZ Series

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	130mA	85mA	Max.65mA
Buzzer current	35mA	30mA	Max.40mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Mounting Bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Customization

- Customized pole length available
- High volume buzzer option can be fitted to the top of the product (Lens should be within 4 layers)

Ordering Specifications

QTG70L-WIZ	-	3	-	110/220	-	RAG	-	LW24
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTG70L-WIZ		1-1 Layer		12-DC12V		R-Red		None-Standard
QTG70L-WIZ-BZ		2-2 Layers		24-DC24V		A-Amber		Bracket
QTG70LF-WIZ		3-3 Layers		110/220-AC110V-220V		G-Green		-LB24 -LW24
QTG70LF-WIZ-BZ		4-4 Layers				B-Blue		-QZ24 -SZ24
QTGA70L-WIZ		5-5 Layers				W-White		-QL24 -SL24
QTGA70L-WIZ-BZ								
QTGA70LF-WIZ								
QTGA70LF-WIZ-BZ								



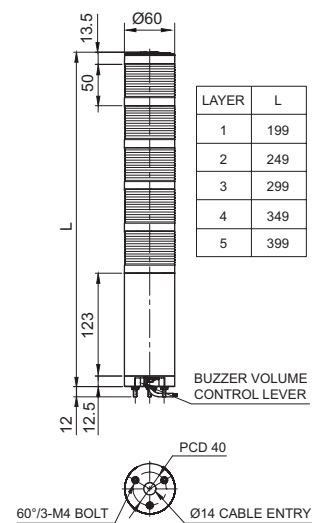
QTGA70L-WIZ Series

QTG-WIZ Series

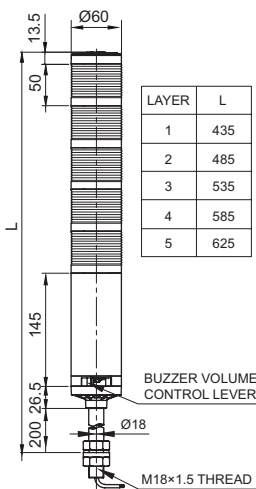
Technical Diagram

Units : mm

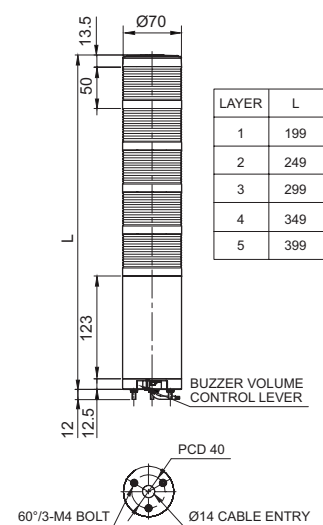
·QTG60ML(F)-WIZ Series



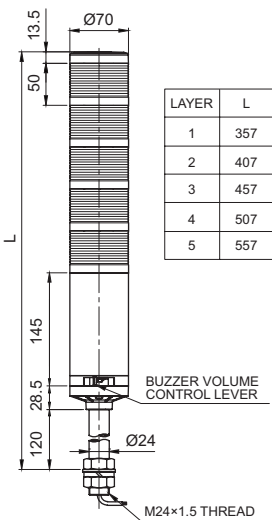
·QTG60L(F)-WIZ Series



·QTG70ML(F)-WIZ Series



·QTG70L(F)-WIZ Series



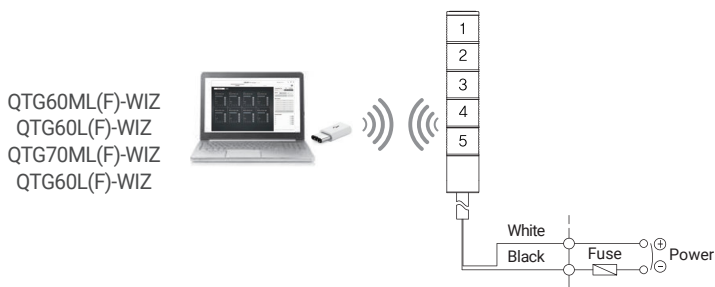
Wiring Instructions

- Please wire the product as followings when you control via wireless network

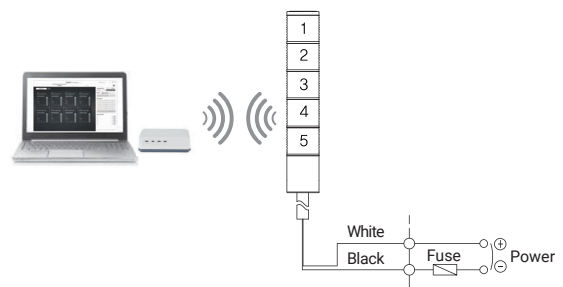
Connection by USB

AC/DC Steady/
Flashing

Connection via USB Dongle



Connection via Gateway

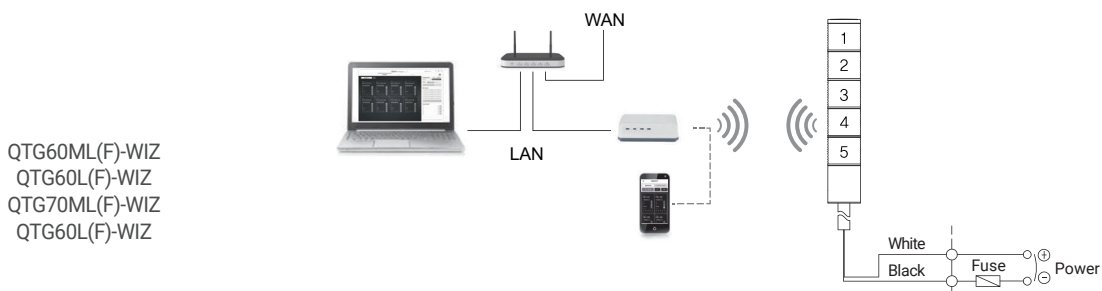


Suitable for single or small-scaled network. Can connect up to 32 devices

Connection by Ethernet

AC/DC Steady/
Flashing

Connection via Gateway and Ethernet Router



Suitable for large-scaled network. One gateway unit is a single group, can connect up to 24 groups, 768 devices (each group can connect to 32 devices)

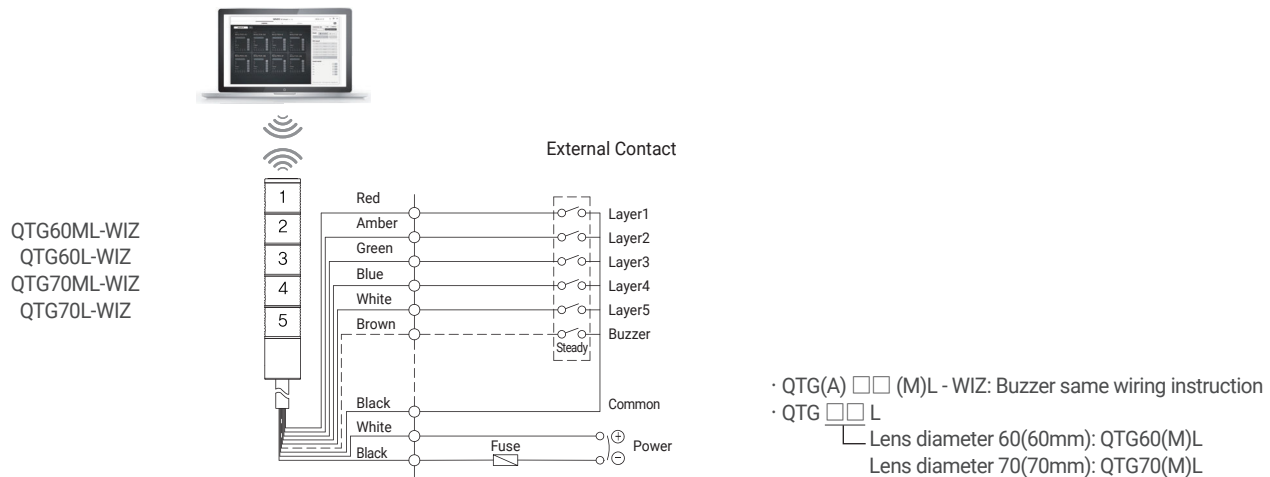
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm

Wiring Instructions

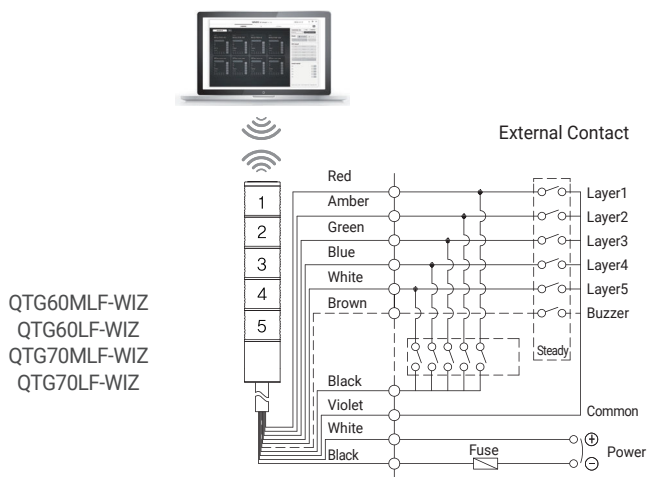
- In case of wiring with External Contacts, refer to the wiring diagrams below according to your product's type and voltage setting.
- You can monitor status of tower light and control them via wireless network.

External Contact

AC/DC Steady

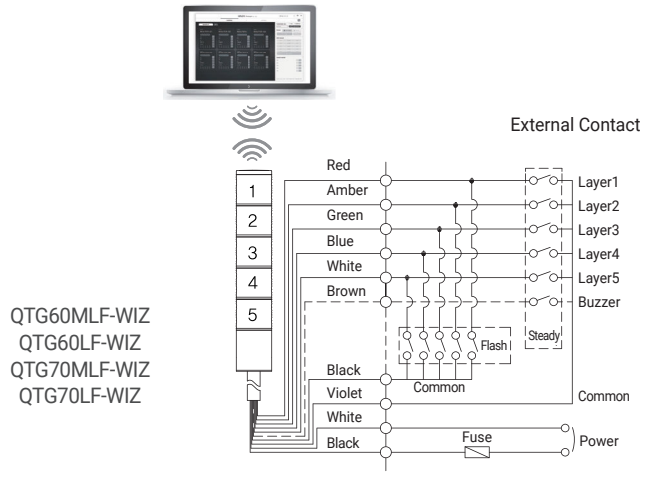


DC Steady/ Flashing



- QTG(A) □□ (M)L - WIZ: Buzzer same wiring instruction
- QTG □□ L
 □ Lens diameter 60(60mm): QTG60(M)L
 □ Lens diameter 70(70mm): QTG70(M)L

AC Steady/ Flashing



- QTG(A) □□ (M)L - WIZ: Buzzer same wiring instruction
- QTG □□ L
 □ Lens diameter 60(60mm): QTG60(M)L
 □ Lens diameter 70(70mm): QTG70(M)L

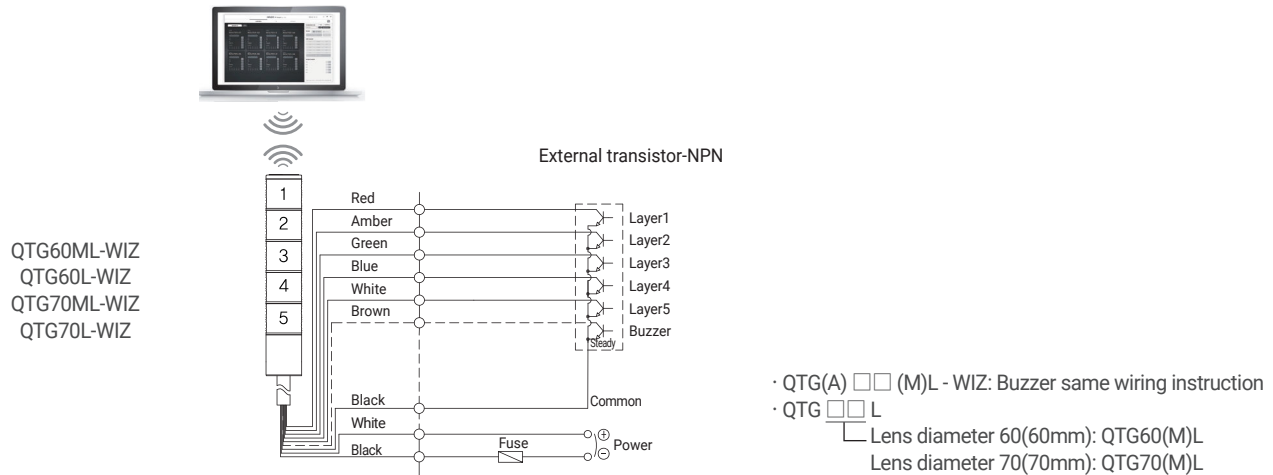
- DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm

Wiring Instructions

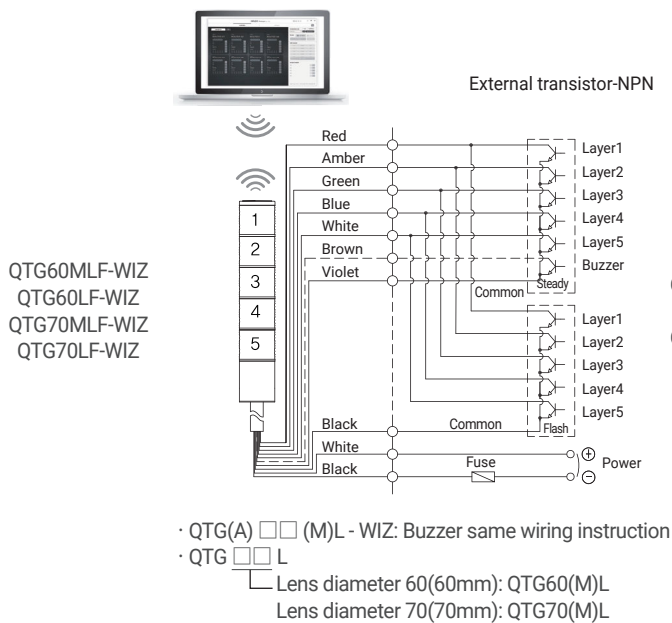
· Wiring to transistor, use the NPN transistor. Please wire properly based on wiring instructions below.

External Transistor

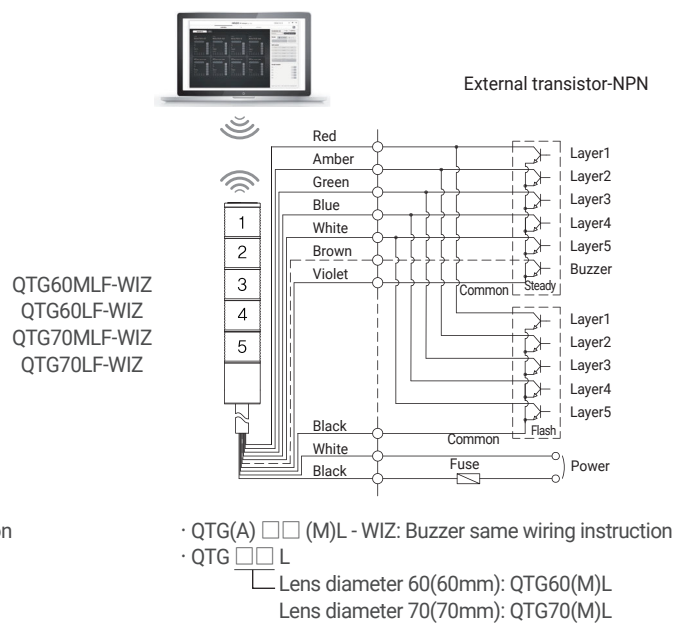
AC/DC Steady



DC
Steady/Flashing



AC
Steady/Flashing



- DC steady type cable specification: External power line/External signal line - UL1007 AWG22(0.3sq) 400mm
- AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm
External signal line - UL1007 AWG22(0.3sq) 400mm

Wireless Multiple Color LED Steady Signal Light

QMCL125-WIZ

Can remotely monitor and control the status of light units using a PC or smartphone



QMCL125-WIZ

PRODUCT SPECIFICATION

QMCL125-WIZ
QMCL125-WIZ-BZ

Materials Lens-PC, Housing-ABS
Ambient operating temperature -30°C to +50°C
Volume Max. 80dB at 1m
Protection rating IP65
Compliant with RoHS directive

- Allows you to build an advanced production network system with a low cost
- Uses a Mesh Topology that operates in 2.4 GHz Short-Range wireless technology which ensures the communication reliability in harsh environments
- Multi-hop function of the signaling device enables a stable long-distance communication(with up to 100M between devices)
- Cost-effective by requiring no additional cable when change the layout of production lines
- Wireless communication protocol : Zigbee(IEEE802.15.4)
- Can generate 7 color light signals in one light unit
- Milky translucent color when off, the soft LED illuminates designated colors when on

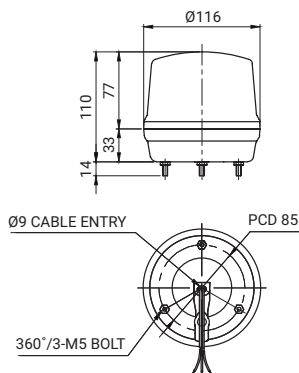
Wiring Instructions

- External signal line : Signal line 4P (R,G,B,K) threading, signal line standard UL1007 AWG22(0.3sq) 400mm
- Please refer to Wiring Instructions diagram to properly configure color options

Technical Diagram

Units : mm

QMCL125-WIZ



QMCL125-WIZ Ø125mm Wireless Multiple Color LED Steady Signal Lights

Model number	Voltage	Certificates	Weight	Color
QMCL125-WIZ	DC12V	CE	0.34kg	7 Color
QMCL125-WIZ-BZ	DC24V	FC		

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V
Light source current(1 layer)	300mA	185mA
Buzzer current	70mA	40mA

Customization

- Wall Mounting bracket options :
Bracket structure allows for threading through the bracket hole or into the wall mount



Wall mount bracket SWP125

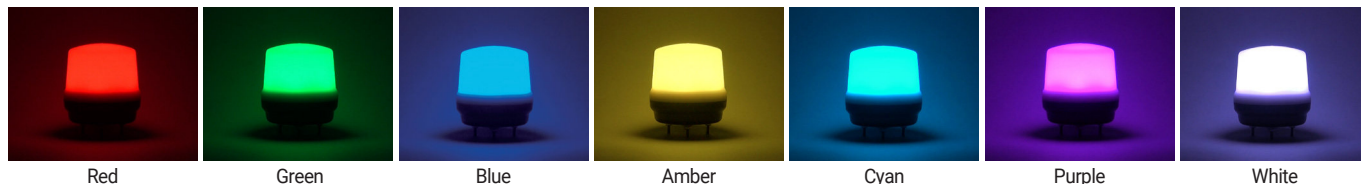


Wall mount bracket SWM125

Ordering Specifications

QMCL125-WIZ	-	BZ	-	24
[Model number]		[Buzzer]		[Voltage]
QMCL125-WIZ		None - No buzzer		12-DC12V
QMCL125-WIZ-BZ		BZ- Built-in buzzer		24-DC24V

Signal Color Options





Wiring Instructions

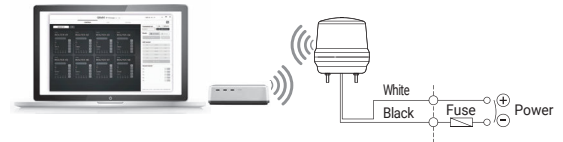
· Please refer to Wiring Instructions diagram to properly configure wireless network option

Connection by USB

Connection via USB Dongle



Connection via Gateway

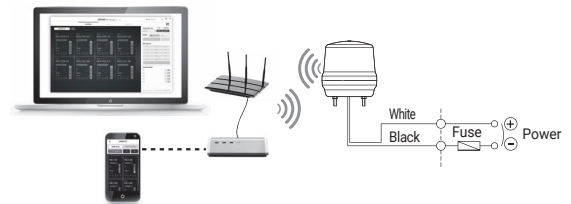


Connection by Ethernet

Ethernet connection via Gateway



Connection via Gateway and Ethernet Router



· Please refer to below wiring Instructions diagram to properly configure External Contact and transistor options

External Contact



· Wiring Configuration for Signal Color

No.	Color	wiring
1	Red	1(RED)
2	Green	2(GREEN)
3	Blue	3(BLUE)
4	Amber	1(RED)+2(GREEN)
5	Cyan	2(GREEN)+3(BLUE)
6	Purple	1(RED)+3(BLUE)
7	White	1(RED)+2(GREEN)+3(BLUE)

External Transistor



· Wiring Configuration for Signal Color

No.	Color	wiring
1	Red	1(RED)
2	Green	2(GREEN)
3	Blue	3(BLUE)
4	Amber	1(RED)+2(GREEN)
5	Cyan	2(GREEN)+3(BLUE)
6	Purple	1(RED)+3(BLUE)
7	White	1(RED)+2(GREEN)+3(BLUE)

WIZ32



A device that receives data wirelessly in connection with a wireless signal information device



WIZ32(USB Dongle)

PRODUCT SPECIFICATION

WIZ32(USB Dongle)

Materials ABS
Ambient operating temperature -25°C to +50°C
Compliant with RoHS directive

- A device that receives data from a wireless signal information device, suitable for a small single wireless network.
- Controlling of wireless signal information devices through two-way communication
- Up to 32 of wireless signal information devices can be connected
- Separate power supply is not required, and only USB Dongle(RS232) is connected to PC.
- Wireless communication standard: IEEE 802.15.4 Standard
- Data rate: 250Kbps

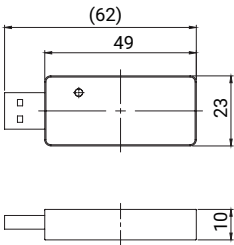
WIZ32(USB Dongle) Wireless network system receiving device

Model number	Voltage	Interface	Wireless standard	Radio frequency/ number of channels	Certificates	Weight
WIZ32	USB 5V	USB2.0	IEEE 802.15.4 Standard	2405MHz-2480MHz(16ch)	 CE FC	0.01kg

Technical Diagram

Units : mm

· WIZ32



GW768



PRODUCT SPECIFICATION

GW768(GATEWAY)

Materials ABS
Ambient operating temperature -25°C to +50°C
Compliant with RoHS directive



GW768(GATEWAY)

- A device that receives data from a wireless signal information device, suitable for a small single wireless network.
- Controlling of wireless signal information devices through two-way communication
- Up to 32ea of wireless signal information devices can be connected per gateway
- Up to 24ea of device can be connected via LAN using Ethernet communication (Maximum 768ea of wireless signal information devices can be connected)
- Information transmission to administrators and controlling real-time using a mobile app
- Wireless communication standard: IEEE 802.15.4 Standard
- Data rate: 250Kbps

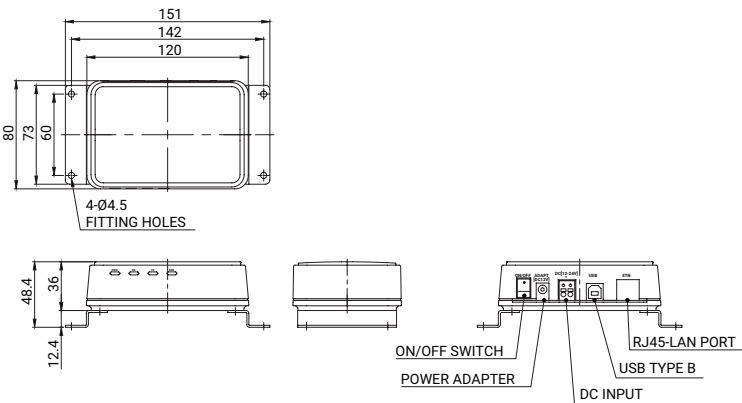
GW768(GATEWAY) Wireless network system receiving device

Model number	Voltage	Current	Interface	Wireless standard	Radio frequency/ number of channels	Certificates	Weight
GW768	DC12-24V	Max. 510mA	USB2.0 /Ethernet	IEEE 802.15.4 Standard	2405MHz-2480MHz(16ch)		0.25kg
	AC110-220V	Max. 115mA					

※ KC compliant: DC12V

Technical Diagram

Units : mm



Ordering Specifications

GW768	-	12/24
[Model number]		[Voltage]
GW768		12/24-DC12V-24V 110/220-AC110V-220V

Technical Certification

Qlight products are designed to meet strict quality and technical standards. Thus, the Qlight brand is widely recognized for its high quality and technical innovations from leading institutions around the world.



ISO
International Organization for
Standardization



IECEx
International Explosion Proof
Certification(IECEx)



ATEX
The European Regulatory
Framework of Manufacture, Installation
and Use of Equipment in Explosive
Atmospheres



NEPSI
National Center for Explosion Protection
and Safety of Instrumentation



NRTL
Certified by designated U.S. laboratory



KCs
Korea safety Certification



TIIS
Technology Institution of
Industrial Safety



CCS
China Classification Society



TS
Industrial Safety Technology Institute
of Taiwan



FCC
Federal Communications Commission



S-mark
Safety Certification



KC
Korea Certification Mark



CCC
China Compulsory Certificate



CCCF
China Certification Center for
Security & Protection



UL
Underwriters Laboratories



CE
European Commission



ICAO
International Civil Aviation Organization



RoHS2
Restriction of Hazardous Substances
Directive