

Innovation in alarm & signal

Signal Tower Lights



TOWER LIGHTS INDEX

1. ' Popular ' QT50L & QT70L Stackable Tower Lights	Page 03
2. ' Popular ' QT50L-WB & QT70L-WB Stackable Tower Lights with Buzzers	Page 07
3. Tower Lights Range	Page 04
4. Wireless Tower Light Range	Page 08
5. Explosion Proof Tower Light Range	Page 13



QT50L (Ø50mm Modular Multi-Functional LED Tower Lights)

QT70L (Ø70mm Modular Multi-Functional LED Tower Lights)

'Popular' QT50L & QT70L

SIGNAL TOWER LIGHTS

- 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, ethernet cord, 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.
- 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 normal operation, a red module would indicate risk which can be highlighted further by selecting a strobe flashing or rotating module.
- Select from 15 kinds of buzzer tones There are 4 audible modules available which includes one buzzer type module and 3 alarm modules. Each alarm module comes with 5 sound patterns that can be selected for your specific application environment. The Buzzer module is customizable with two options- the 2 tone buzzer and high volume buzzer.
- Product consist of LED modules, base module and pole module.
- Can select from a variety of pole selections to fit your application needs.
- Material : Lens-PC, Housing-ABS, Pole-Al.
- Ambient operating temperature : -30°C to +50°C.
- Protection rating : Ip65.



LED MODULE (Multi-functional 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.



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



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



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



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



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



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



MOUNTING BRACKETS (Pole Mounting)

Standard

LB18 / LB24

LW18 / LW24

QZ18 / QZ24

SZ18 / SZ24

QL18 / QL24

SL18 / SL24

QLA18 / QLA24



Steel

Steel

PC

PC

Al

PC

Al

PC

General Signal Tower Lights (Stackable & Single LED's)

Applications for semiconductor manufacturing facilities, robotic production lines, and remote monitoring systems



STA25SLM

Ø25mm super slim LED tower light which provides excellent visibility by using a high brightness LED with a special diffusion lens



Product Specifications

- Dimensions ≈ Ø25mm
- Height ≈ 368-488mm
- Materials
 - Body : Al
 - Lens : AS
- Operating Voltages
 - DC12V, 24V, AC110V, 220V
- Protection Rating
 - IP44

STA35SL, STA35SLM

Ø35mm slim LED tower light which provides excellent visibility by using a high brightness LED with a special diffusion lens



Product Specifications

- Dimensions ≈ Ø35mm
- Height
 - STA35SL ≈ 85-265mm
 - STA35SLM ≈ 205-385mm
- Materials
 - STA35SL - Body : ABS, Lens : AS
 - STA35SLM - Body : Al, Lens : AS
- Operating Voltages
 - DC12V, 24V, AC110V, 220V
- Protection Rating
 - IP44

STA45SLM, STA45SLMP

Ø45mm slim LED tower light which provides excellent visibility by using a high brightness LED with a special diffusion lens



Product Specifications

- Dimensions ≈ Ø45mm
- Height
 - STA45SLM ≈ 198-378mm
 - STA45SLMP ≈ 398-568mm
- Materials
 - Body : Al - Lens : AS
- Operating Voltages
 - DC12V, 24V, AC110V, 220V
- Protection Ratings
 - IP23(with Buzzer)
 - IP44(without Buzzer)

QT56HEX

Hexagon shaped metal housing, excellent impact resistance with use of die casted housing



Product Specifications

- Dimensions ≈ Ø45mm
- Height ≈ 397mm
- Materials
 - Lens : PC
 - Housing : Al
 - Mounting bracket : Al
- Operating Voltage
 - DC24V
- Protection Ratings
 - IP23(with Buzzer)
 - IP44(without Buzzer)

ST45B, ST56B, ST80B

Bulb steady/flashing tower lights which adopts a light bulb with excellent durability and longevity



Product Specifications

- Dimensions
 - ST45B ≈ Ø45mm
 - ST56B ≈ Ø56mm
 - ST80B ≈ Ø80mm
- Materials
 - Body : ABS - Lens : AS - Pole : Al
- Buzzer - Max.90dB
- Flash Rate - 60~80 fpm
- Operating Voltages
 - DC12V, 24V, AC110V, 220V
- Protection Ratings
 - Built-in Buzzer type : IP23
 - Without Buzzer : IP44

ST56EL, ST80EL

LED signal towers, suitable for semiconductor manufacturing facilities, robotic production lines, and remote monitoring systems



Product Specifications

- Dimensions
 - ST56EL ≈ Ø56mm
 - ST80EL ≈ Ø80mm
- Materials
 - Body : ABS - Lens : AS
 - Pole : Al
- Buzzer - Max.90dB
- Flash Rate - 60~80 fpm
- Operating Voltages
 - DC12V, 24V, AC110V, 220V
- Protection Ratings
 - With Built-in Buzzer : IP23
 - Without Buzzer : IP44

ST45L, ST56L, ST80L

High intensity power LED signal towers with built-in alarm - can select between steady/flashing function



Product Specifications

- Dimensions
 - ST45L ≈ Ø45mm
 - ST56L ≈ Ø56mm
 - ST80L ≈ Ø80mm
- Materials
 - Body : ABS - Lens : AS - Pole : Al
- Buzzer - Max.90dB
- Flash Rate - 60~80 fpm
- Operating Voltages
 - DC12V, 24V, AC110V, 220V
- Protection Ratings
 - Built-in Buzzer type : IP23
 - Without Buzzer : IP44

ST45L-W, ST56L-W, ST80L-W

High intensity LED signal tower and electric horn combinations with 5 selectable sound patterns



Product Specifications

- Dimensions
 - ST45WL ≈ Ø45mm
 - ST56WL ≈ Ø56mm
 - ST80WL ≈ Ø80mm
- Materials
 - Body : ABS
 - Lens : AS
 - Pole : Al
- Sound Volume - Max.85dB
- Flash Rate - 60~80 fpm
- Operating Voltages
 - DC12V, 24V, AC110V, 220V
- Protection Rating - IP23

STC45, STC56, STC80

Multi-Color LED tower lights that can deliver two to three signals with one layer



Product Specifications

- Dimensions
 - STC45 ≈ Ø45mm
 - STC56 ≈ Ø56mm
 - STC80 ≈ Ø80mm
- Materials
 - Body : ABS - Lens : AS - Pole : Al
- Buzzer - Max.90dB
- Flash Rate - 60~80 fpm
- Operating Voltages
 - DC12V, 24V, AC110V, 220V
- Protection Ratings
 - Built-in Buzzer type : IP23
 - Without Buzzer : IP44

QT56MCL

High brightness LED steady tower light that can be configured with 7 colors in 1 unit



Product Specifications

- Dimensions ≈ Ø45mm
- Height ≈ 397mm
- Materials
 - Lens : PC
 - Housing : Al
 - Mounting bracket : Al
- Operating Voltage
 - DC24V
- Protection Ratings
 - IP23(with Buzzer)
 - IP44(without Buzzer)

STG40, STG50

Layer re-arrangeable LED steady/flashing tower lights, vertical lens contact structure allows for easy assembly and layer re-arrangement



Product Specifications

- Dimensions
 - STG40 $\approx$ Ø40mm
 - STG50 $\approx$ Ø50mm
- Materials
 - Lens : AS
 - Body : ABS
 - Pole : Al
- Buzzer - Min. 50dB - Max. 85dB
- Flash Rate - 60~80 fpm
- Operating Voltages
 - DC12V, 24V, AC110V~220V
- Protection Ratings
 - Built-in Buzzer type : IP54
 - Without Buzzer : IP65

QTG50, QTG60, QTG70

LED steady/flashing tower lights featuring excellent far visibility with special color diffusion lens



Product Specifications

- Dimensions
 - QTG50 $\approx$ Ø50mm
 - QTG60 $\approx$ Ø60mm
 - QTG70 $\approx$ Ø70mm
- Materials
 - Lens : AS - Body : ABS
 - Pole : Al
- Buzzer - Min. 50dB - Max. 85dB
- Flash Rate - 60~80 fpm
- Operating Voltages
 - DC12V, 24V, AC110V~220V
- Protection Ratings
 - Built-in Buzzer type : IP54
 - Without Buzzer : IP65

QTC50, QTC60, QTC70

LED steady/flashing tower lights with separate color filter lens inside the outer lens helping provide a clear signal



Product Specifications

- Dimensions
 - QTC50 $\approx$ Ø50mm
 - QTC60 $\approx$ Ø60mm
 - QTC70 $\approx$ Ø70mm
- Materials
 - Lens : AS - Body : ABS
 - Pole : Al
- Buzzer - Min. 50dB - Max. 85dB
- Flash Rate - 60~80 fpm
- Operating Voltages
 - DC12V, 24V, AC110V~220V
- Protection Ratings
 - Built-in Buzzer type : IP54
 - Without Buzzer : IP65

QTR50, QTR60, QTR70

LED steady/flashing tower lights with milky translucent inner color filter providing comfortable viewing for the operator



Product Specifications

- Dimensions
 - QTR50 $\approx$ Ø50mm
 - QTR60 $\approx$ Ø60mm
 - QTR70 $\approx$ Ø70mm
- Materials
 - Lens : AS - Body : ABS
 - Pole : Al
- Buzzer - Min. 50dB - Max. 85dB
- Flash Rate - 60~80 fpm
- Operating Voltages
 - DC12V, 24V, AC110V~220V
- Protection Ratings
 - Built-in Buzzer type : IP54
 - Without Buzzer : IP65

SJ, SR

LED tower lights for small equipment applications



Product Specifications

- Dimensions
 - SJ $\approx$ 95X95mm
 - SR $\approx$ Ø83mm
- Materials
 - Body : ABS
 - Lens : AS
 - Pole : Al
- Operating Voltages
 - DC12V, 24V, AC110V, 220V
- Protection Rating - IP44

QWT

Wall mount LED tower light that minimizes the chance of breakage from moving obstacles or personnel



Product Specifications

- Dimensions $\approx$ Ø70mm
- Height $\approx$ 122~286mm
- Materials
 - Lens : PC
 - Cover : ABS
 - Body : ABS
- Buzzer - Max. 85 dB
- Flash Rate - 60~80 fpm
- Operating Voltages
 - DC12V, 24V, AC110V~220V
- Protection Rating - IP54

QT50L, QT70L

Modular LED signal tower

- interchangeable modules to customer specification



Product Specifications

- Dimensions
 - QT50L $\approx$ Ø50 / QT70L $\approx$ Ø70
- Materials
 - Lens : PC
 - Cover : ABS
 - Base Modular : PC
 - Pole : Al
- Flash Rate – 60~80 fpm
- Operating Voltages
 - DC12V, 24V, AC110V, 220V
- Protection Rating – IP65

QT50L-BZ, QT70L-BZ

Modular LED signal tower with built-in buzzer

- interchangeable modules to customer specification



Product Specifications

- Dimensions
 - QT50L-BZ $\approx$ Ø50 / QT70L-BZ $\approx$ Ø70
- Materials
 - Lens : PC
 - Cover : ABS
 - Base Modular : PC
 - Pole : Al
- Buzzer – Max.90dB
- Flash Rate – 60~80 fpm
- Operating Voltages
 - DC12V, 24V, AC110V, 220V
- Protection Rating – IP54

QT50L-W, QT70L-W

Modular LED signal tower and horn combination with 5 selectable sound patterns



Product Specifications

- Dimensions
 - QT50L-W $\approx$ Ø50mm
 - QT70L-W $\approx$ Ø70mm
- Materials
 - Lens : PC
 - Cover : ABS
 - Base Modular : PC
 - Pole : Al
- Speaker
 - QT50L-W : 85dB, QT70L-W : 85dB
- Flash Rate – 60~80 fpm
- Operating Voltages – DC12V, 24V
- Protection Rating – IP54

QT56L-WN

Wireless controllable signal tower with LED Steady, LED Flashing, LED Revolving Flashing, LED Strobe light functions



Product Specifications

- Dimensions $\approx$ Ø50mm
- Materials
 - Lens : AS
 - Cover : ABS
 - Housing : ABS
- Type
 - LED Steady, LED Flashing, LED Revolving Steady, LED Strobe
- Buzzer : Max. 80dB
- Operating Voltages
 - DC12V, 24V, AC110V, 220V
- Protection Rating – IP65

SWT

Wall mount LED tower light - featuring enhanced visibility with a special light diffusion filter that directly radiates light to the user



Product Specifications

- Half-circle diameters $\approx$ Ø90mm
- Height $\approx$ 216mm
- Depth $\approx$ 46mm
- Materials
 - Lens : PC
 - Body : ABS
 - Cover : ABS
- Volume – Max.90dB
- Flash Rate – 60~80 fpm
- Operating Voltages
 - DC12V, 24V, AC110V, 220V
- Protection Rating – IP55

SWTC

Multi-color LED tower light with a large enclosure, excellent visibility with a special light diffusing filter that directly radiates light to the user



Product Specifications

- Half circle diameters $\approx$ Ø90mm
- Height $\approx$ 216mm
- Depth $\approx$ 46mm
- Materials
 - Lens : PC
 - Body : ABS
 - Cover : ABS
- Volume : 90dB
- Flash Rate – 60~80 fpm
- Operating Voltages
 - DC12V, 24V, AC110V, 220V
- Protection Rating – IP55

QTG70ML-WIZ

WIRELESS LED STEADY/FLASHING TOWER LIGHT



QTG70ML-WIZ series



QTGA70ML-WIZ series



QTG70ML-WIZ Ø70mm Direct Mount, LED Steady/Flashing Type

Model number	Layer	Voltage	Current	Certificate	Weight	Color
QTG70ML-WIZ Steady	1	DC12V DC24V AC110V-220V	0.150A 0.110A Max. 0.070A		0.45kg 0.45kg 0.55kg	• R-Red
QTG70ML-WIZ-BZ Steady /w built-in buzzer	2	DC12V DC24V AC110V-220V	0.240A 0.160A Max. 0.100A		0.59kg 0.59kg 0.69kg	• R-Red • G-Green
QTG70MLF-WIZ Steady/Flashing	3	DC12V DC24V AC110V-220V	0.330A 0.220A Max. 0.120A		0.80kg 0.80kg 0.90kg	• R-Red • A-Amber • G-Green
QTG70MLF-WIZ-BZ Steady/Flashing /w built-in buzzer	4	DC12V DC24V AC110V-220V	0.420A 0.270A Max. 0.150A		0.95kg 0.95kg 0.95kg	• R-Red • A-Amber • G-Green • B-Blue
QTGA70ML-WIZ Steady	5	DC12V DC24V AC110V-220V	0.510A 0.320A Max. 0.170A		1.10kg 1.10kg 1.20kg	• R-Red • A-Amber • G-Green • B-Blue • W-White

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



Wiring Instructions

- External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
- Signal line standard : UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wiring with external contact and transistor

※ Please refer to page 394-396 for detailed wiring information.



Customization

- High buzzer module equipped on top(Lens should be within 4 layers)
- Black housing tower lights
- 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 mount



Wall Mount Bracket
TWS80



Wall Mount Bracket
TWA80

PC Connection Components

	Suitable for single or small-scaled network Can connect up to 32 devices
	Suitable for large-scaled network One gateway unit is a single group, can connect up to 24 groups (each group can connect to 32 devices) ※ Network router is required for group communication.



Ordering Specification

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

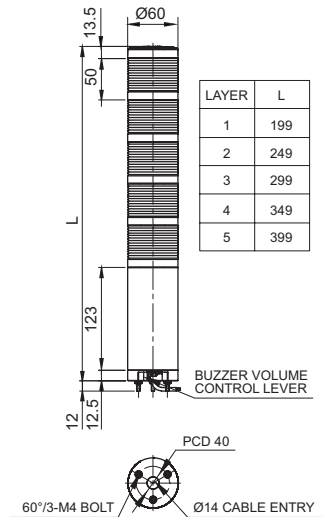
QTG-WIZ series WIRELESS LED STEADY/FLASHING TOWER LIGHT



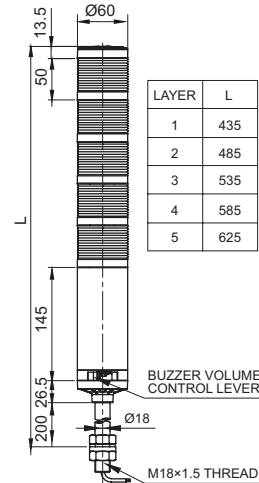
Technical Diagram

(Units : mm)

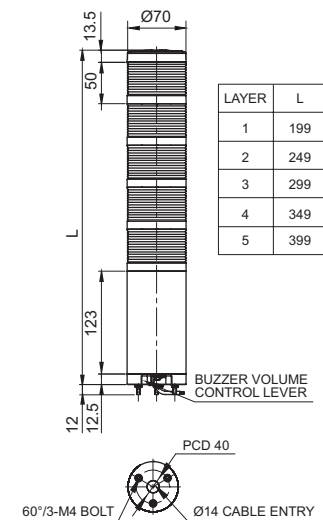
QTG60ML(F)-WIZ-Series



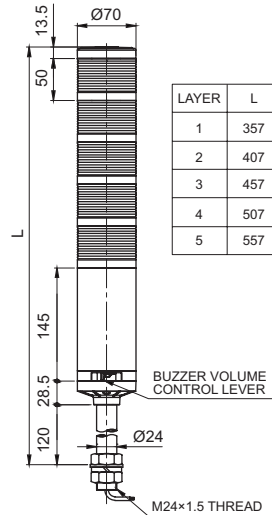
QTG60L(F)-WIZ-Series



QTG70ML(F)-WIZ-Series



QTG70L(F)-WIZ-Series



QTG-WIZ series WIRELESS LED STEADY/FLASHING TOWER LIGHT



Wiring Instructions

- Please wire the product as followings when you control via wireless network

Applied products	Connection by USB	
AC/DC Steady/ Flashing		
QTG60ML-WIZ QTG60L-WIZ QTG70ML-WIZ QTG70L-WIZ	Connection via USB Dongle	Connection via Gateway
	Suitable for single or small-scaled network Can connect up to 32 devices	
Applied products	Connection by Ethernet	
AC/DC Steady/ Flashing		
QTG60MLF-WIZ QTG60LF-WIZ QTG70MLF-WIZ QTG70LF-WIZ	Ethernet connection via Gateway	Connection via Gateway and Ethernet Router
	Suitable for single or small-scaled network Can connect up to 32 devices	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)

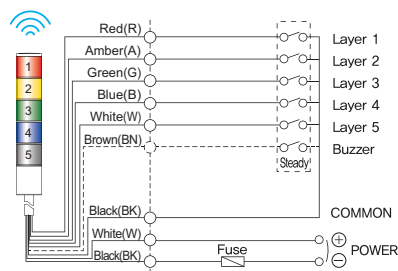
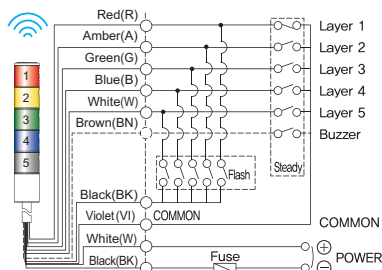
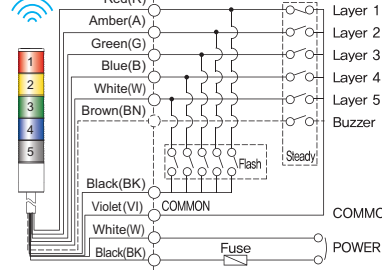
- AC Steady type, AC/DC Steady/ Flashing type : External power line standard : UL1015 AWG18(0.75sq)×2C 400mm

QTG-WIZ series WIRELESS LED STEADY/FLASHING TOWER LIGHT



Wiring Instructions

- Please wire the product by referring below instruction.
- You can monitor status of tower light and control them via wireless network.

Applied products	External Contact	
AC/DC Steady/ Flashing QTG60ML-WIZ QTG60L-WIZ QTG70ML-WIZ QTG70L-WIZ	  • QTG(A) □□(M)L - WIZ : Same wiring including buzzer type • QTG□□L ↳ Lens diameter 60(60mm) : QTG60(M)L 70(70mm) : QTG70(M)L	
AC/DC Steady/ Flashing QTG60MLF-WIZ QTG60LF-WIZ QTG70MLF-WIZ QTG70LF-WIZ	  • QTG(A) □□(M)L - WIZ : Same wiring including buzzer type • QTG□□L ↳ Lens diameter 60(60mm) : QTG60(M)L 70(70mm) : QTG70(M)L	  • QTG(A) □□(M)L - WIZ : Same wiring including buzzer type • QTG□□L ↳ Lens diameter 60(60mm) : QTG60(M)L 70(70mm) : QTG70(M)L

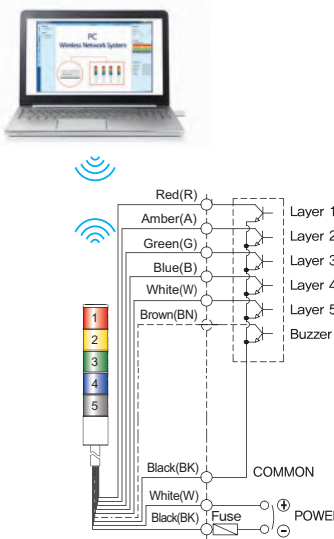
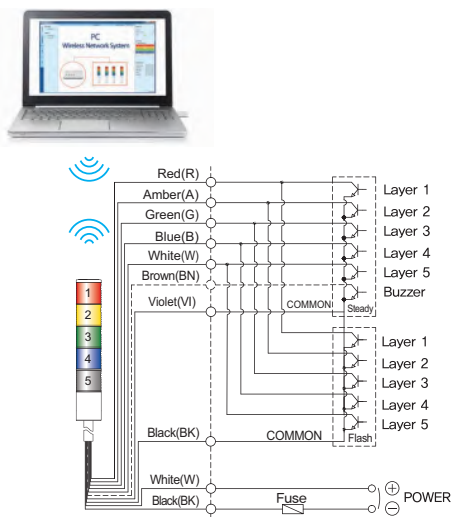
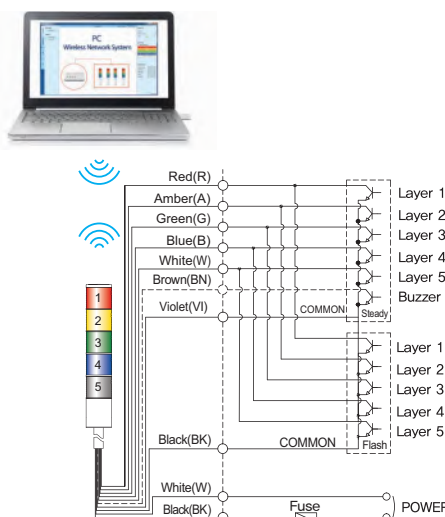
- DC Steady type External power line & Signal line standard : UL1007 AWG22(0.3sq) 400mm
- AC Steady, AC/DC Steady/ Flashing type External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
signal line standard : UL1007 AWG22(0.3sq) 400mm

QTG-WIZ series WIRELESS LED STEADY/FLASHING TOWER LIGHT



Wiring Instructions

- Wiring to transistor, use the NPN transistor. Please wire properly based on wiring instructions below.

Applied products	External Contact	
AC/DC Steady/ Flashing QTG60ML-WIZ QTG60L-WIZ QTG70ML-WIZ QTG70L-WIZ	 - QTG(A) □□(M)L - WIZ : Same wiring including buzzer type - QTG□□L - Lens diameter 60(60mm) : QTG60(M)L 70(70mm) : QTG70(M)L	
AC/DC Steady/ Flashing QTG60MLF-WIZ QTG60LF-WIZ QTG70MLF-WIZ QTG70LF-WIZ	 - QTG(A) □□(M)L - WIZ : Same wiring including buzzer type - QTG□□L - Lens diameter 60(60mm) : QTG60(M)L 70(70mm) : QTG70(M)L	 - QTG(A) □□(M)L - WIZ : Same wiring including buzzer type - QTG□□L - Lens diameter 60(60mm) : QTG60(M)L 70(70mm) : QTG70(M)L

- DC Steady type External power line & Signal line standard : UL1007 AWG22(0.3sq) 400mm
- AC Steady, AC/DC Steady/ Flashing type External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
signal line standard : UL1007 AWG22(0.3sq) 400mm

Non Sparking Explosion Proof LED Tower Lights



ST45ML-Ex Standard Model

Non-sparking explosion proof
LED tower lights suitable for
use in zone 2 hazardous areas



ST45ML-Ex



Gas cabinets used in the semiconductor industry require constant supply of specialty gases and pressure to properly store the devices. Non-sparking explosion proof products (ST45ML-EX) must be used in these conditions.

Common Specifications(ST45ML-Ex/ STB45ML-Ex)

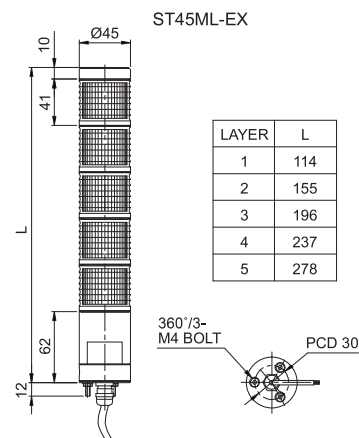
- Non- sparking explosion protected high-intensity LED steady tower lights
- Excellent distance visibility by using a special reflector to arrogate the light from the LED filament
- Reduced maintenance with use of long-lasting LED light source
- Lens and housing are made of polycarbonate with excellent 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
- Materials : Lens-PC, Housing-PC, Mounting housing-AI
- Certificates : NEPSI, KCs(KGS)
- Explosion protection rating: Ex nR IIT4, Ex nR IIT6(Layer 3 Only)
- Protection rating : IP54
- Ambient operating temperature : $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$

 ST45ML-Ex Non-Sparking Explosion Proof LED Tower Light

Model number	Layer	Voltage	Current	Certificate	Weight	Color
ST45ML-Ex	1	AC/DC12V	0.024A		0.19kg	R-Red
		AC/DC24V	0.012A		0.19kg	
	2	AC/DC12V	0.048A		0.24kg	R-Red
		AC/DC24V	0.024A		0.24kg	G-Green
	3	AC/DC12V	0.072A		0.29kg	R-Red
		AC/DC24V	0.036A		0.29kg	A-Amber G-Green
	4	AC/DC12V	0.096A		0.32kg	R-Red A-Amber
		AC/DC24V	0.048A		0.32kg	G-Green B-Blue
	5	AC/DC12V	0.120A		0.36kg	R-Red A-Amber G-Green
		AC/DC24V	0.060A		0.36kg	B-Blue W-White

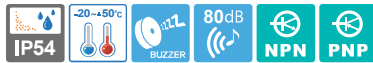
Technical Diagram

(Units : mm)



STB45ML-Ex

Built-in Buzzer Non-Sparking Explosion Proof Tower Lights



STB45ML-Ex Built-in buzzer type

Non-sparking explosion proof
LED tower lights suitable for
use in zone 2 hazardous areas



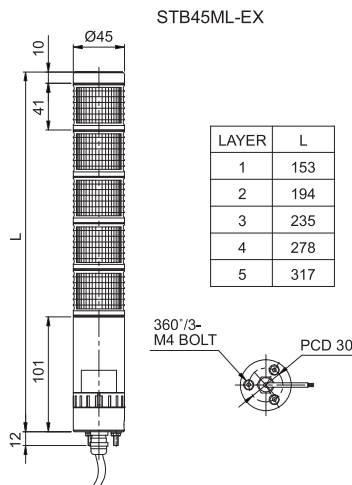
STB45ML-Ex



Sound volume
adjustable by volume
control lever



Technical Diagram (Units : mm)



STB45ML-Ex Built-in Buzzer Non-Sparking Explosion Proof Tower Lights

- Sound volume adjustable by volume control lever
- Sound volume : Max 80dB at 1m

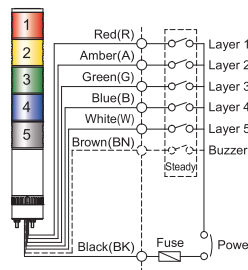
Model number	Layer	Voltage	Current	Certificates	Weight	Color
STB45ML-Ex	1	AC/DC12V	0.040A		0.26kg	• R-Red
		AC/DC24V	0.043A		0.26kg	
	2	AC/DC12V	0.064A		0.30kg	• R-Red
		AC/DC24V	0.055A		0.30kg	• G-Green
	3	AC/DC12V	0.088A		0.34kg	• R-Red
		AC/DC24V	0.067A		0.34kg	• A-Amber • G-Green
	4	AC/DC12V	0.112A		0.38kg	• R-Red • A-Amber • G-Green
		AC/DC24V	0.079A		0.38kg	• B-Blue
	5	AC/DC12V	0.136A		0.42kg	• R-Red • A-Amber • G-Green • B-Blue
		AC/DC24V	0.091A		0.42kg	• W-White



Wiring Instructions

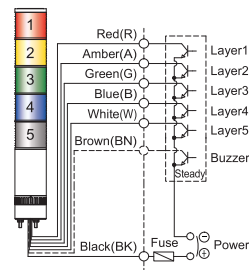
ST45ML-Ex-DC
STB45ML-Ex-DC

EXTERNAL CONTACT

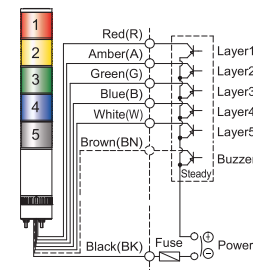


ST45ML-Ex-DC
STB45ML-Ex-DC

EXTERNAL TRANSISTOR-NPN



EXTERNAL TRANSISTOR-PNP



- External power line/ Signal line standard : UL2464 AWG22(0.3sq) 400mm



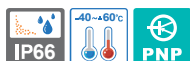
Ordering Specification

ST45ML-Ex	-	3	-	12	-	RAG
[Model number]		[Layer]		[Voltage]		[Color]
• ST45ML-Ex • STB45ML-Ex		• 1-1layer • 2-2layers • 3-3layers • 4-4layers • 5-5layers		• 12-DC12V • 24-DC24V		• R-Red • A-Amber • G-Green • B-Blue • W-White



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 - Standard model

Explosion proof LED tower lights with flame proof housing



QTEX
Direct mount type



QTEX
Wall mount type

Explosion Proof LED Tower Lights Flame Proof Housing



Common Specifications(QTEX/ QTEXB)

- 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.
- Flashing rate: 60-80 flashes/min
- Selectable between steady/flashing mode with proper wire arrangement
- Sound volume : Max 80dB at 1m(QTEXB Type)
- Lens colors arrangement : ●R-Red ●A-Amber ●G-Green ●B-Blue ●W-White
- Standard housing color : Silver
- Cable entry : 3/4" NPT
- Materials : Lens-Tempered glass, Filter lens-AS, Housing-Al, Reflector-Heat resistant ABS
- Certificates : IECEx
- Protection rating : Ex d IIC T6 Gb, IP66
- Ambient operating temperature : $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$



QTEX Explosion Proof LED Tower Lights with Flame Proof Housing

Model number	Layer	Voltage	Current	Certificate	Weight	Color
QTEX (Steady/ Flashing)	1	DC12V	0.080A		4.01kg	● R-Red
		DC24V	0.040A		4.01kg	
		AC110V	0.046A		4.02kg	
		AC220V	0.023A		4.02kg	
	2	DC12V	0.160A		4.15kg	● R-Red ● G-Green
		DC24V	0.080A		4.15kg	
		AC110V	0.051A		4.16kg	
		AC220V	0.025A		4.16kg	
	3	DC12V	0.240A		4.31kg	● R-Red ● A-Amber ● G-Green
		DC24V	0.120A		4.31kg	
		AC110V	0.057A		4.32kg	
		AC220V	0.028A		4.32kg	
	4	DC12V	0.320A		4.46kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		DC24V	0.160A		4.46kg	
		AC110V	0.064A		4.47kg	
		AC220V	0.032A		4.47kg	
	5	DC12V	0.400A		4.61kg	● R-Red ● A-Amber ● G-Green ● B-Blue ● W-White
		DC24V	0.200A		4.61kg	
		AC110V	0.071A		4.62kg	
		AC220V	0.035A		4.62kg	



Hazardous Area Classification

- **Zone 0 : Dangerous status**
Ignitable concentrations of flammable gases or vapors which are present continuously or for long periods of time.
- **Zone 1 : Normal status**
Ignitable concentrations of flammable gases or vapors which are likely to occur under normal operating conditions.
- **Zone 2 : Abnormal status or places**
Ignitable concentrations of flammable gases or vapors which are not likely to occur under normal operating conditions and do so only for a short period of time.

QTEX series

Qlight

Johannesburg Branch
MIMIC COMPONENTS
Cape Town Branch
Mimic Cape



QTEXB - Built-in buzzer type



QTEXB
Direct mount type



QTEXB
Wall mount type

Explosion Proof LED Tower Lights with Flame Proof Housing



QTEXB Built-in Siren Buzzer Type Explosion Proof LED Tower Lights with Flame Proof Housing

- Explosion proof LED tower lights with visual & audible signal that can be used in hazardous environments
- Sound tone & volume : Siren buzzer, Max 80dB at 1m

Model number	Layer	Voltage	Current	Certificate	Weight	Color
QTEXB (Steady/ Flashing)	1	DC12V	0.100A	IECEx	4.11kg	● R-Red
		DC24V	0.050A		4.11kg	
		AC110V	0.073A		4.12kg	
		AC220V	0.053A		4.12kg	
	2	DC12V	0.180A		4.25kg	● R-Red ● G-Green
		DC24V	0.090A		4.25kg	
		AC110V	0.078A		4.26kg	
		AC220V	0.055A		4.26kg	
	3	DC12V	0.260A		4.41kg	● R-Red ● A-Amber ● G-Green
		DC24V	0.130A		4.41kg	
		AC110V	0.084A		4.42kg	
		AC220V	0.058A		4.42kg	
	4	DC12V	0.340A		4.56kg	● R-Red ● A-Amber ● G-Green ● B-Blue
		DC24V	0.170A		4.56kg	
		AC110V	0.091A		4.57kg	
		AC220V	0.062A		4.57kg	
	5	DC12V	0.420A		4.71kg	● R-Red ● A-Amber ● G-Green ● B-Blue ● W-White
		DC24V	0.210A		4.71kg	
		AC110V	0.098A		4.72kg	
		AC220V	0.065A		4.72kg	

Explosion proof structure for buzzer model



What is a 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

- Built-in explosion proof cable gland
- Two way cable entries



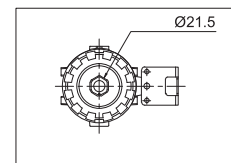
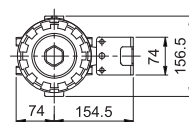
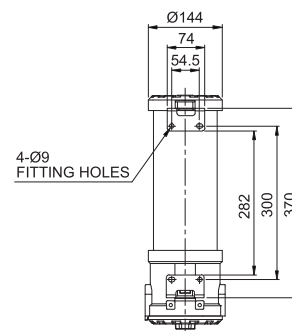
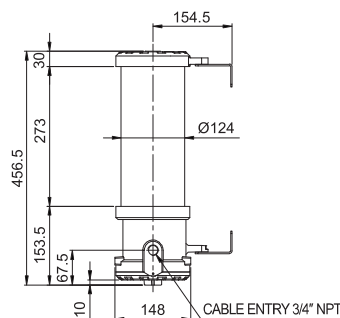
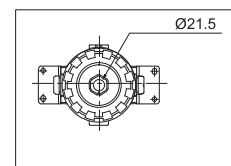
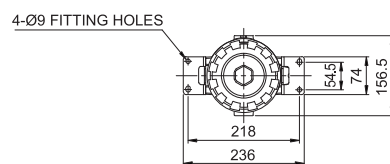
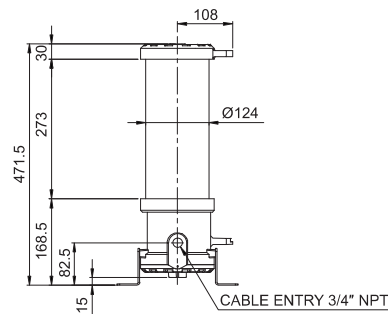
Ordering Specification

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



Technical Diagram

(Units : mm)



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.

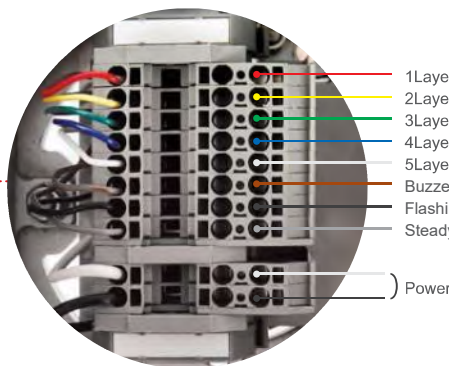


Wiring Instructions

- 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	Transistor type
DC steady/ flashing type	QTEX/ QTEXB-DC	QTEX/ QTEXB-DC EXTERNAL TRANSISTOR-PNP
AC steady/ flashing type	QTEX/ QTEXB-AC	QTEX/ QTEXB-AC EXTERNAL TRANSISTOR-PNP

Terminal Wiring Information



- 1Layer(RED LED)
- 2Layers(AMBER LED)
- 3Layers(GREEN LED)
- 4Layers(BLUE LED)
- 5Layers(WHITE LED)
- Buzzer
- Flashing common
- Steady common
- Power

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.

JOHANNESBURG



MIMIC COMPONENTS

ELECTRICAL & ELECTRONIC
WHOLESALE DISTRIBUTORS
SOUTHERN AFRICA

Address

5 Ramsay Street, Booyens,
2091 Johannesburg,
South Africa

P.O. Box 38493 Booyens,
2016 South Africa

Telephone:
Switchboard: +27 (0)11- 689-5700

Website: www.mimiccomponents.co.za
Email: info1@mimiccomponents.co.za

CAPE TOWN



MIMIC CAPE

ELECTRICAL & ELECTRONIC
WHOLESALE DISTRIBUTORS
SOUTHERN AFRICA

Address

Unit 41A, Stella Park,
57 Stella Road, Montague Gardens,
Cape Town, 7441, South Africa

PO. Box 36955 Chempet,
7442 South Africa

Telephone:
Switchboard: +27(0) 21-551-8185

Website: www.mimic-cape.co.za
Email: info@mimic-cape.co.za



MIMIC COMPONENTS sales@mimic.co.za www.mimic.co.za TEL: (011) 689-5700
5 Ramsay Street, Booyens 2091, Johannesburg P.O. Box 38493, Booyens 2016, Johannesburg, South Africa FAX: (011) 493-8821



MIMIC CAPE anje@mimics.co.za www.mimic.co.za TEL: +27(0)21-551-8185 FAX: +27(0)21-551-8189
Unit 41A, Stella Park, 57 Stella Road, Montague Gardens, Cape Town 7441. PO Box 36955 Chempet 7442 South Africa