MULTISPAN

WATER LEVEL CONTROLLER
WLC 22

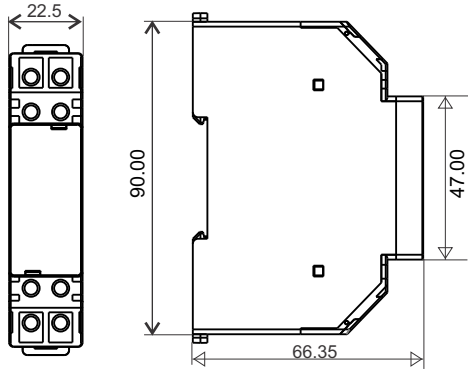
FEATURES

- Trip Relay Indication
- High & Low Level Indication Led
- Compact & sleek design
- Sensitivity Adjustable : 1K to 200K ohm
- Pump protection from Dry run & Overflow condition
- Used for drain & fill control

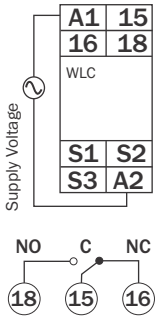
Technical Specification

Model	WLC 22
Power Supply	100 - 270V AC,50/60 Hz,7VA
Input Sensor	3 nos. prods S1 : Common S2 : Low S3 : High
Indications	LED 1 : Relay LED 2 : High Level LED 3 : Low Level LED 4 : Mains
Sensitivity	1 to 200 Kilo ohms
Reset	Auto
Trip Delay	0.5 sec (Approx.)
Output	1 Relay,1C/O (NO-C-NC)
Output Rating	10Amp,230V AC
Dimension	90 x 22.5 x 67.5
Mounting	Din Rail Mounting

Mechanical Dimension



Terminal Connection

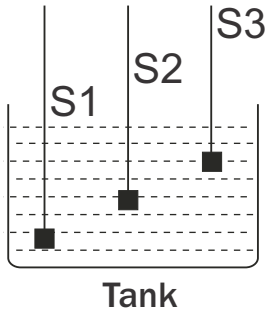


Power Supply (A1 & A2):
100 to 270V AC
Smps,50/60Hz, 7 VA

Sensor Terminal
S1-Common
S2-Low
S3-High

Output :
1 Relay 1 C/O ,
5A 230V AC (Res.)

Connection Diagram



Safety Precaution

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If all the equipment is not handled in a manner specified by the manufacturer, it might impair the protection provided by the equipment.

Read complete instructions prior to installation and operation of the unit.

WARNING : Risk of electric shock.

Caution

Ensurements of your WLC 22.
1) Ensure the connection as per terminal diagram.
2) To be Handle by only authorized and person.
3) Not installed near any heat sources like burner, electric arc.
4) Installed as near to the starter as possible.
5) The sensor prods are suspended from the top opening of the water tank in PVC conduct piping. Metal pipes should not be used.
6) The sensor prods should not be wall mounted on metallic water tank.
7) Adjust the sensitivity of water resistance given on front plate.

Logic Selection

WLC 22 can be operate either in SUCTION logic or in DELIVERY logic using output relay contact terminal 15 & 18 (COM-NO), 15 & 16 (COM-NC) respectively.

Funcation Of Suction Logic

When you select SUCTION LOGIC using the relay contact terminals 15 & 18. Put sensor prods S1, S2 & S3 in water tank. The pump motor will start automatically when the tank is full.
(i.e prod S1, S2 & S3 are under water)
and will stop automatically when the water tank is empty
(i.e prod S2,S3 out of water & S1 under water)

Funcation Of Delivery Logic

When you select DELIVERY LOGIC using the relay contact terminal 15 & 16. Put sensors prods S1, S2 & S3 in water tank. The pump motor will start automatically when the tank is empty.
(i.e prod S1 is under water S2, S3 are out of water)
and pump motor will stop automatically when the water tank is full (i.e S1, S2 & S3 are under water).

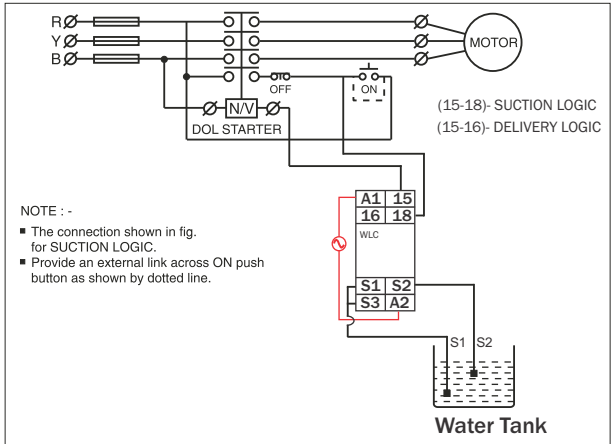
Sensitivity Setting

Refer below procedure for adjusting sensitivity according to conductivity of water.
1) Keep all prods in water and set the pot at maximum position. Now the relay becomes ON.
2) The turns the pot towards the minimum side till the relay becomes OFF.
3) Now to adjust the pot above setting where the relay becomes ON and does not chatter.

NOTE :

Position of potentiometer is adjusted according to conductivity level of water, Do not disturb potentiometer setting once fixed.

One Level Controller

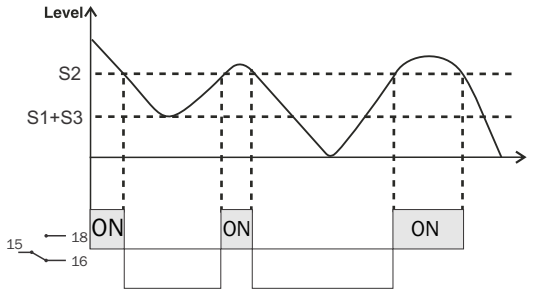


NOTE : -
- The connection shown in fig. for SUCTION LOGIC.
- Provide an external link across ON push button as shown by dotted line.

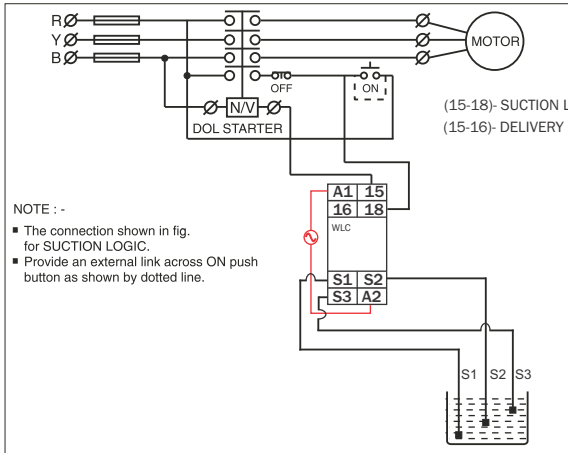
TESTING CHART

SR NO.	S1+S3	S2	RELAY OUTPUT
1	OUT	OUT	OFF
2	IN	OUT	OFF
3	IN	IN	ON
4	IN	OUT	OFF
5	OUT	OUT	OFF

TIMING DIAGRAM



Two Level Controller

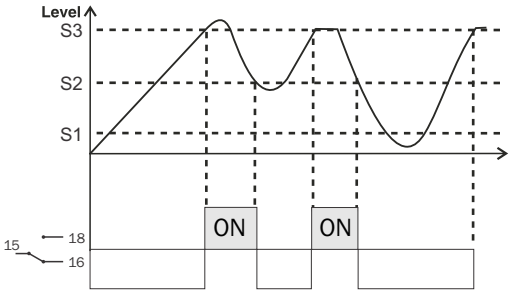


NOTE : -
- The connection shown in fig. for SUCTION LOGIC.
- Provide an external link across ON push button as shown by dotted line.

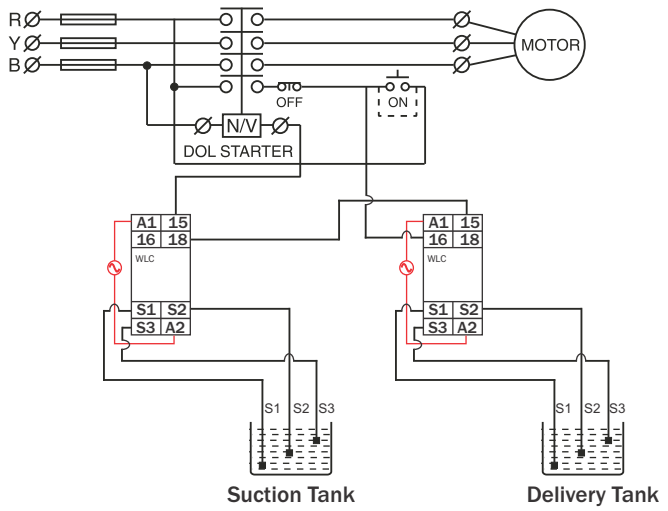
TESTING CHART

SR NO.	S1	S2	S3	RELAY OUTPUT
1	OUT	OUT	OUT	OFF
2	IN	OUT	OUT	OFF
3	IN	IN	OUT	OFF
4	IN	IN	IN	ON
5	IN	IN	OUT	ON
6	IN	OUT	OUT	OFF

TIMING DIAGRAM



Two Level Controller For Both Tank



NOTE : - ■ Provide an external link across ON push button as shown by dotted line.

TESTING CHART

Sr. No.	SENSOR PROD IN SUCTION TANK (T1)			SENSOR PROD IN DELIVERY TANK (T2)			MOTOR OUTPUT
	S1	S2	S3	S1	S2	S3	
1	IN	IN	IN	IN	IN	IN	OFF
2	IN	IN	IN	IN	IN	OUT	OFF
3	IN	IN	IN	IN	OUT	OUT	ON
4	IN	IN	OUT	IN	IN	IN	OFF
5	IN	IN	OUT	IN	IN	OUT	OFF
6	IN	IN	OUT	IN	OUT	OUT	ON
7	IN	OUT	OUT	IN	IN	IN	OFF
8	IN	OUT	OUT	IN	IN	OUT	OFF
9	IN	OUT	OUT	IN	OUT	OUT	OFF

NOTE : **IN** : SENSOR PROD INSIDE THE WATER
OUT : SENSOR PROD OUTSIDE THE WATER

Specifications are subject to change, since development is a continuous process.For more updated operating information and Support call 011-689-5700. Ver:210201