



DIN 35mm

# Features:

- Specially Designed Sensors
- Trip Relay Indication
- Used for Drain and Fill Control
- 1 C/O Output
- Adjustable Sensitivity 1k to 200k Ohms
- DIN Rail Mount

Certification :  $\mathbf{C} \in$ 

# **Display Specifications**

Туре	Analog	
No. of LED	2	
No. of Knob	1	
LED Indication	Power ON, Relay ON	

# **LED Indication Chart**

Condition	'ON' LED	'R' LED
Nominal Condition	ON	ON
Fault Condition	ON	OFF

#### **Input Specifications**

Functions	
Function	Level Monitoring of Conductive Liquid One Level or Two level monitoring One tank or Two Tank Level monitoring Using Suction Logic & Delivery Logic
Reset	Automatic
Input Sensor	3 no. Stainless steel prods
Electrical Connection	1Ø - 2 wire
Trip Settings	According to the levels of sensor placed in the water tank
Trip Time Settings	0.5sec (approx.)

### **Output Specifications**

Relay Contact	SPDT (1 C/O)
Relay Rating	10A@250VAC / 28VDC

### **Auxiliary Supply Specifications**

Supply Voltage	85 to 270V AC / DC
Frequency	50 / 60Hz
Power Consumption	3VA max

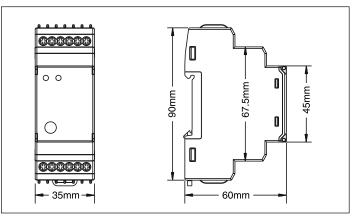
# **Environmental Specifications**

Temperature	Operating Temperature : 0° to 50°C Storage Temperature : -20° to 70°C
Humidity (non - condensing)	Upto 95% RH
Pollution Degree	
For PCB	2
For Product	3
Degree of Protection Devices	IP20

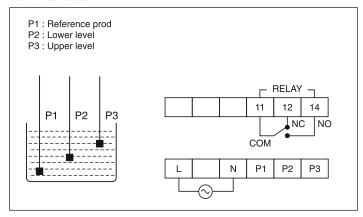
# **Mechanical Specifications**

Mounting	DIN Rail
Weight	Sensors : 50gms each Unit : 105gms
Screw Tightening Torque	0.5 NM

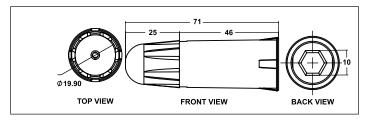
#### **Dimensions**



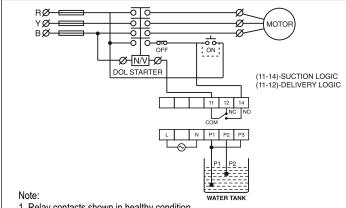
#### **Terminal connection**



#### **Input Sensor Dimensions**



#### One Level Controller

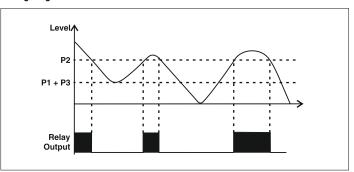


- 1. Relay contacts shown in healthy condition
- 2. The connection shown in fig 1 for suction logic.
- 3. Provide an external link across ON push button as shown by dotted line

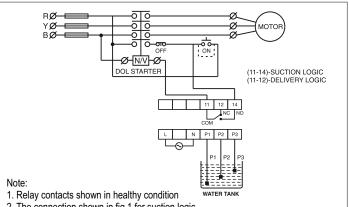
## **TESTING CHART**

Sr No.	P1+P3	P2	Relay Output
1	OUT	OUT	OFF
2	IN	OUT	OFF
3	IN	IN	ON
4	IN	OUT	OFF
5	OUT	OUT	OFF

### **Timing Diagram**



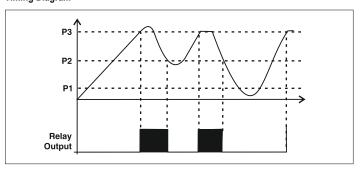
#### **Two Level Controller**



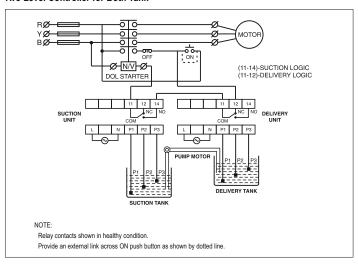
- The connection shown in fig 1 for suction logic.
   Provide an external link across ON push button as shown by dotted line

TESTING CHART					
Sr No.	P1	P2	P3	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



TESTING CHART							
Sr. No.	SENSOR PROD IN SUCTION TANK (T1)		.		RELAY OUTPUT STATUS WLCA2M1		
	P1	P2	P3	P1	P2	P3	
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

# Compliance

Applicable EMI / EMC Standards				
Product Standard : IEC 60947-2				
Category	Reference Standards	Testing Level		
Radio Frequency Interference Radiation Disturbance Test	IEC 61000-4-20	Class-A		
Electrostatic Discharge Immunity Test	IEC 61000-4-2	Class-A		
Radio Frequency Interference Conducted Disturbance Test	CISPR 11	Class-A		
Immunity To Conducted Disturbances, Introduced By Radio Frequency Fields Test	IEC 61000-4-6	Class-A		
Electrical Test Transient / Burst Immunity	IEC 61000-4-4	Class-A		
Radiated, Radio-Frquency, Electromagnetic Field Immunity test	IEC 61000-4-8	Class-A		
Surge Immunity Test	IEC 61000-4-3	Class-A		
Voltage Dips, Short Interruption And Vlotage Variations Immunity Test	IEC 61000-4-5	Class-C		
AC Voltage Test	IEC 61000-4-11	Clause 6.7		
Temperature Rise Test	IEC 61010-1	Clause 10.1-10.4		
Resistance To Heat Test (RTH)	IEC 61010-1	Clause 10.5		
Single Fault Test (SFT)	IEC 61010-1	Clause 4.4		

# **Ordering Information**

Product Code	Supply Voltage	Certification
WLCA2M1-CE-RoHS	85 to 270V AC / DC	C€

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