LIQUID LEVEL CONTROLLERS

These are suitable for conductive liquids like water and for non-conductive liquids like Diesel/Oil. Models for either one level monitoring or two level monitoring.

MODELS

**WLC D1, Electrodes,
P1 LCW1,
S2 WLC1, P2 ALT1,
DLC D1 + FRKP 1,
FRKP 4**

FEATURES
- Can be used for potable water, water with impurities and for diesel/oil
- Cable size & length no restriction for water level monitoring
- Suitable for variety of electrodes
- Optical sensing for diesel/oil level monitoring
- Open collector output (for FRKP4)
- Choice of enclosures (DIN-Rail, & Plug-in)
- Use of SMD Technology (S2 Series models)

FUNCTIONS
- Level monitoring of conductive and non-conductive liquids
- One level or two level monitoring
- One tank or two tank level monitoring

LEVEL CONTROLLERS - CONDUCTIVE LIQUIDS

WLC D1
Water Level Control Relay Two Level Single Tank

P1 LCW1
Water Level Control Relay Two Level Single Tank

Single tank - 2 level control relay, suitable for conductive liquids, sensitivity adjustment, 1CO output relay.
Also can be used as moisture control relay.

Single tank - 2 level control relay, suitable for conductive liquids, 1CO output relay

	WLC D1	P1 LCW1
Auxiliary Supply	24 VAC/DC/100-120/220-240/380-440 V AC ± 10%, 50 / 60 Hz	24 /110 / 240 / 380 / 415 V AC ±10%, 50 / 60 Hz, 12 / 24 V DC
Output Contacts	1 CO	1 CO
Input Sensors	3 Electrodes	3 Electrodes
Sensitivity	1KΩ - 200 KΩ (adjustable)	N.A.
Trip Time Delay	Less than 1 sec	Less than 1 sec
Weight		
Unit	300 gms.	125 gms
Sensor (each)	50 gms.	50 gms
Dimensions (mm)		
Unit		
Overall (L x W x D)	76 x 30.5 x 117.5	50 x 40 x 80
Mounting (L x W)	68 mm centre to centre / 35 mm rail mounting	8 - pin plug-in
Sensor (mm)		
Overall	24 (Dia) x 76 (L)	24 (Dia) x 76 (L)

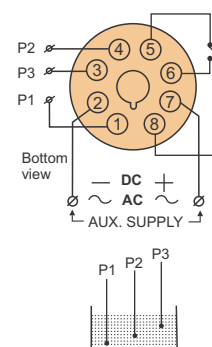Wherever not specified
Contact Rating :
5A @ 230 V AC (resistive)
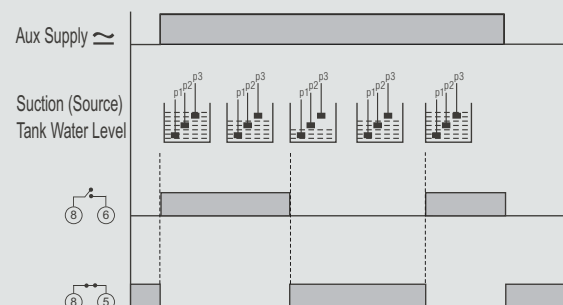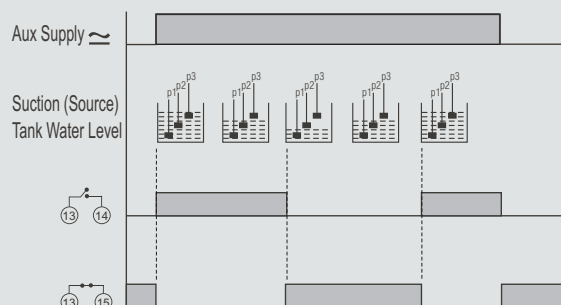
Moisture control relay connection:
• Short 1 & 3 terminals.
• Connect sensor wires at 1 & 2 terminals.
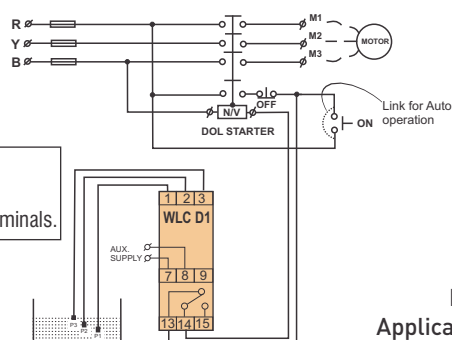
Relay contact
Applicable for suction Tank

![mimilec®]

S2 WLC1
Water Level Control Relay Two Level Single Tank

P2 ALT1
Alternating Relay

Single tank 2 level control relay,
Sensitivity adjustment,
suitable for conductive liquids,
1CO output relay

This is a simple 'Step Relay' to achieve alternating duty of two pumps or compressors. Operation of two pumps or compressors is achieved in alternating sequence as per either pressure switch or level control or thermostat contacts. Product is available in 11 pin (P2) plug-in enclosure.

24 V AC / DC / 110 / 240 V AC ± 10%	
1 CO	
3 Electrodes	
1 KΩ To 200 KΩ (adjustable)	
Less than 1 sec. (Fixed)	
200 gms.	
50 gms.	
90 x 35 x 60	
35 MM Rail Mounting	
24 (Dia) x 76 (L)	

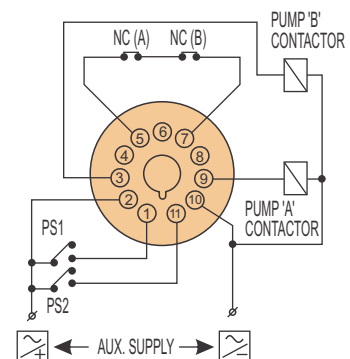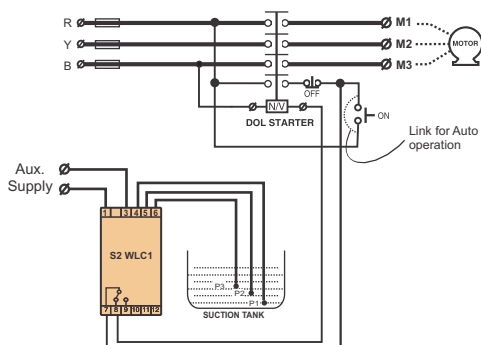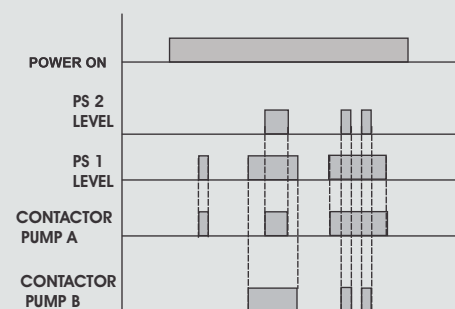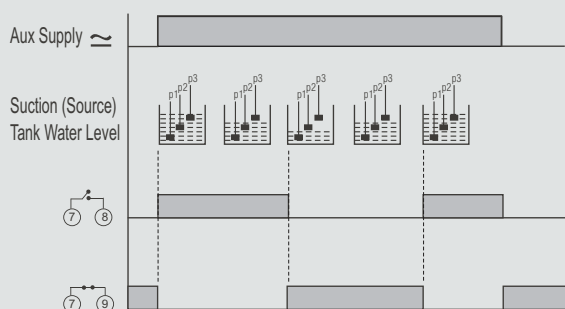|	
Aux Supply	110/115/220/230/240/380/415 V AC 24 V AC/DC ± 15 %
Frequency	50 Hz / 60 Hz ± 3%
Power Consumption	5 VA max.
Output Relay Contact	2 NO
Indication	
ON	Power ON (Green)
RLY	Relay ON (Red)
Operations	30 Operation/Min. (max.)
Dimensions (H x W x D)	85 x 35 x 90mm
Mounting	11 pin plug in base mounting
Weight	250 gms. (approx.)

Aux Supply ∿

Suction (Source) Tank Water Level

POWER ON

PS 2 LEVEL

PS 1 LEVEL

CONTACTOR PUMP A

CONTACTOR PUMP B

Relay position as per suction logic selection

DLC D1 + FRKP 1
Diesel Level Control Relay Single Level

FRKP 4
Diesel Level Sensor Switch Single Level

One level switch for diesel/oil, optical sensing principle, 1 CO output relay
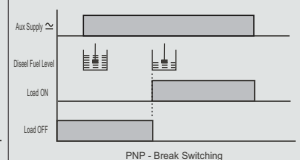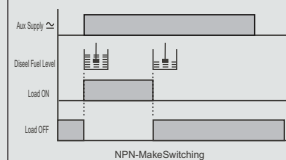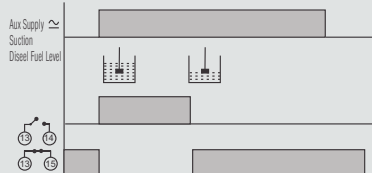
Either high level or low level switch (selectable), open collector output Output suitable as input to PLC or Controller

	DLC D1 + FRKP 1	FRKP 4
Auxiliary Supply	100-120/220-240/380-440 V AC / 24 V DC / AC, 12 V DC ±10%	10-28 V DC ±10%
Output Contacts	1 CO	Open Collector 200 mA @ 24 V DC
Input Sensors	1 (FRK P1)	Built-in sensor
Sensitivity	N. A.	N. A.
Trip Time Delay	Less than 5 sec	Less than 1 sec
Weight		
Unit	300 gms.	—
Sensor (each)	100 gms.	100 gms
Dimensions (mm)		
Unit		
Overall (L x W x D)	76 x 30.5 x 117.5	—
Mounting (L x W)	68 mm centre to centre / 35 mm rail mounting	—
Sensor (mm)		
Overall	18 (Dia) x 75 (L)	18 (Dia) x 75 (L)

NPN-MakeSwitching

PNP - Break Switching
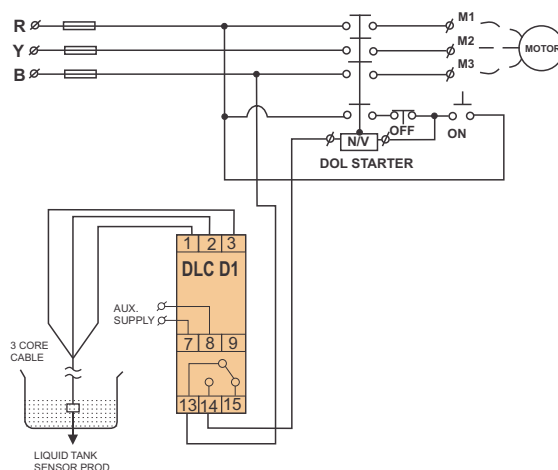
Relay position as per logic selection

NPN- Make Switching

PNP- Break Switching