

# LIQUID LEVEL CONTROLLERS

*mimilec*<sup>®</sup>



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

### Ordering Instructions

- Product Family Name
- Model Name
- System Supply Voltage
- Aux. Supply/Control supply voltage
- Type of liquid & its specifications

# LEVEL CONTROLLERS - CONDUCTIVE LIQUIDS

## WLC D1

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.

## P1 LCW1

Water Level Control Relay Two Level Single Tank

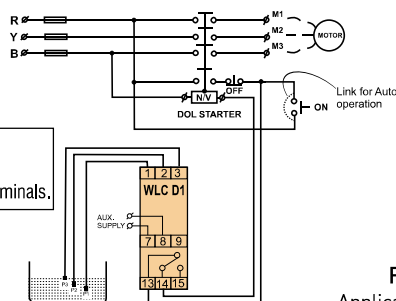
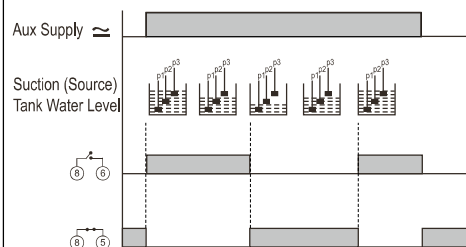
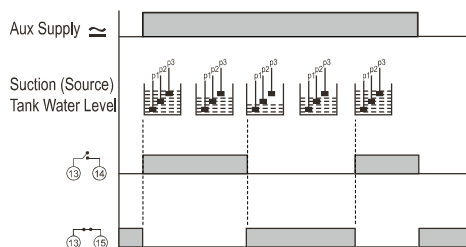


Single tank - 2 level control relay, suitable for conductive liquids, 1CO output relay

Note: Mention specific voltage (Fixed/wide range) in order

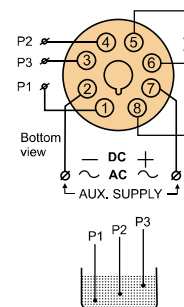
<b>Auxiliary Supply</b>	24 VAC/DC/100-120/220-240/380-440 V AC $\pm$ 10%, 50 / 60 Hz	24 / 110 / 240 / 380 / 415 V AC $\pm$ 10%, 50 / 60 Hz, 12 / 24 V DC
<b>Output Contacts</b>	1 CO	1 CO
<b>Input Sensors</b>	3 Electrodes	3 Electrodes
<b>Sensitivity</b>	1K - 200 K (adjustable)	N.A.
<b>Trip Time Delay</b>	Less than 1 sec	Less than 1 sec
<b>Weight</b>		
Unit	300 gms.	125 gms
Sensor (each)	50 gms.	50 gms
<b>Dimensions (mm)</b>		
<b>Unit</b>		
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
<b>Sensor (mm)</b>		
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

## S2 WLC1

Water Level Control Relay Two Level Single Tank



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

24 V AC / DC / 110 / 240 V AC  $\pm$  10%  
 1 CO  
 3 Electrodes  
 1 K To 200 K (adjustable)  
 Less than 1 sec. (Fixed)

200 gms.  
 50 gms.

90 x 35 x 60  
 35 MM Rail Mounting

24 (Dia) x 76 (L)

## P2 ALT1

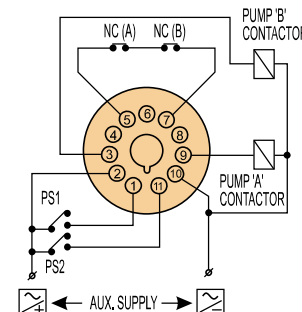
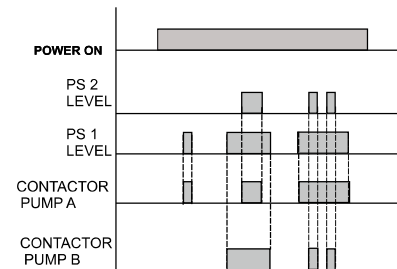
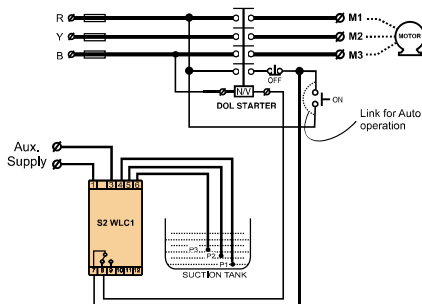
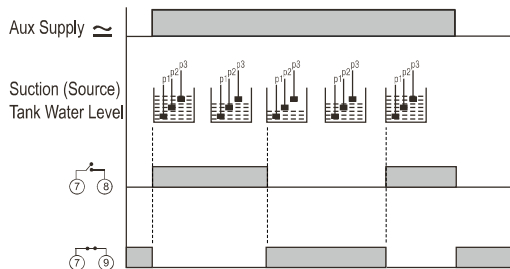
Alternating Relay



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.

Aux Supply 110/115/220/230/240/380/415 V AC  
 24 V AC/DC  $\pm$  15 %  
 Frequency 50 Hz / 60 Hz  $\pm$  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.)

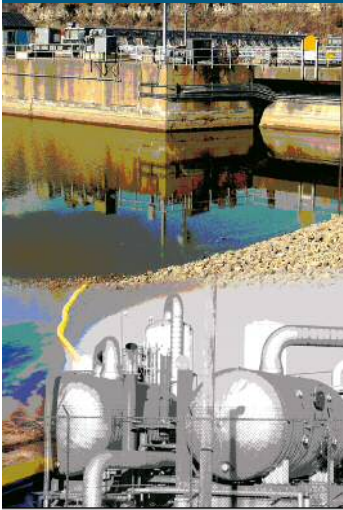


Relay position as per suction logic selection

# LEVEL CONTROLLERS - NONCONDUCTIVE LIQUIDS

## DLC D1 + FRKP 1 Diesel Level Control Relay Single Level

## FRKP 4 Diesel Level Sensor Switch Single Level



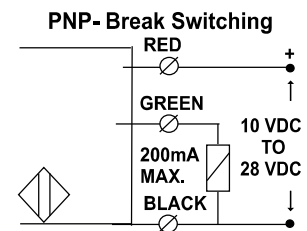
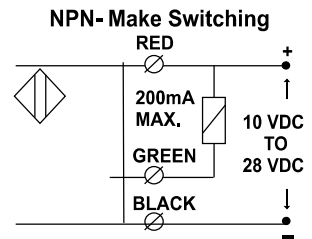
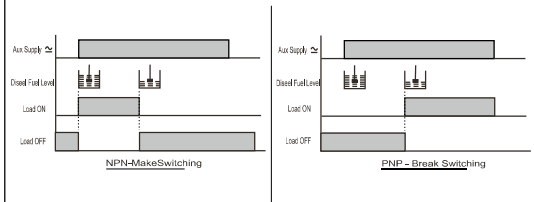
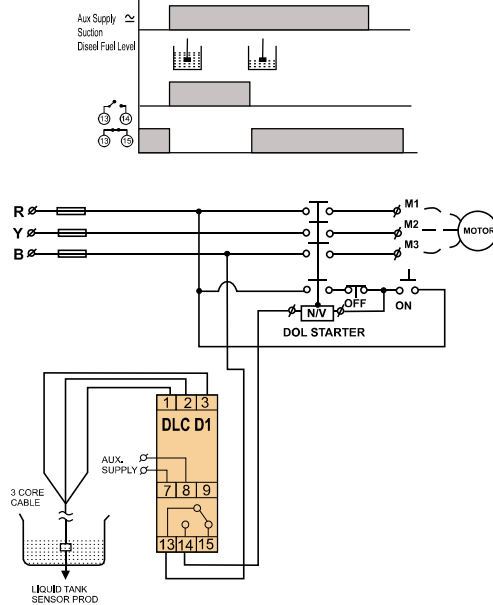
One level switch for diesel/oil, optical sensing principle, 1 CO output relay



Either high level or low level switch (selectable), open collector output  
Output suitable as input to PLC or Controller

Note: Mention specific voltage (Fixed/wide range) in order

<b>Auxiliary Supply</b>	100-120/220-240/380-440 V AC / 24 V DC / AC, 12 V DC $\pm$ 10%	10-28 V DC $\pm$ 10%
<b>Output Contacts</b>	1 CO	Open Collector 200 mA @ 24 V DC
<b>Input Sensors</b>	1 (FRK P1)	Built-in sensor
<b>Sensitivity</b>	N. A.	N. A.
<b>Trip Time Delay</b>	Less than 5 sec	Less than 1 sec
<b>Weight</b>		
Unit	300 gms.	—
Sensor (each)	100 gms.	100 gms
<b>Dimensions (mm)</b>		
<b>Unit</b>		
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	—
<b>Sensor (mm)</b>		
Overall	18 (Dia) x 75 (L)	18 (Dia) x 75 (L)



Relay position as per logic selection