

LEVEL AND PUMP CONTROL



2-Level Liquid Level Relay

TE101

TE201

SPDT

DPDT

Failsafe design.

Filling: Link 7 & 8. The relay energises when the level drops below the low level probe and de-energises when it reaches the high level probe. Top and bottom probes are interchangeable.

Emptying: No link between 7 & 8. The relay energises when the level reaches the high probe and de-energises when it drops below the low probe.

- For single level sensing connect pins 5 & 6 (Probes 5 & 7).
- 1s response time to limit effect of water ripple. Longer times manufactured to order.

TE101B: Dual voltage 230/400V

For Probes, see Pg. 32

3-Level Liquid Level Relay

DLR

DLRA

DPST

Failsafe design.

DLR

For alternating pumps

There are two relay outputs with flip-flop action each cycle for alternating duty of pumps. Relay is connected to four probes.

Filling: Link 7 & 8. Pump 1 starts when the level drops below the start level probe. Pump 2 will start if the level drops to the second probe. Both pumps run until tank is full. The next cycle pump 2 first then pump 1.

Emptying: No link between 7 & 8. Function as above but reversed.

DLRA

For one pump & alarm

Output relay energises and de-energises between 2 levels like TE101. When extreme level is reached, the alarm output energises (2nd Relay). Alarm can be used for high or low function.

For Probes, see Pg. 32

Submersible Pump Seal Monitor

SPSM1

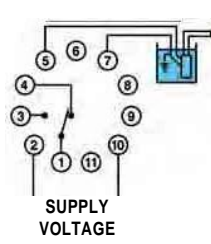
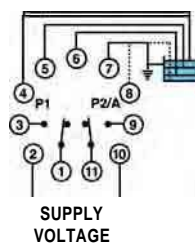
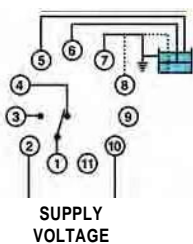
SPDT

Failsafe design.

For protection of submersible motors against damage caused by the ingress of water.

Terminals 5 & 7 connect to the monitoring terminals on the submersible motor.

The output relay energises upon application of power. The relay will de-energise if probe current is more than 20µA or if probe resistance is less than 1Mohm. The relay will energise if probe current is less than 15µA or if probe resistance is more than 1,4Mohm.



Level sensor:
Probe volts 5 VAC @ 1.5mA
Adjustable sensitivity: 0 - 50 kV

Max Voltage on probe = 24VDC
Max Current through probe = 120µA = 0.12mA.

LEDs:
Power on – Red
Seal healthy – Green

AC: ±1.5VA DC: 100mA @ 12VDC

Galvanic isolation with internal transformer 12, 24, 48, 110, 230, 400, 525VAC ±15% (Isolation test volts 2kV)

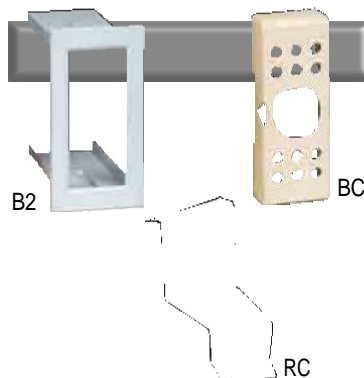
12, 24, 48VDC

SPDT: 10A @ 250VAC DPDT: 5A @ 250VAC

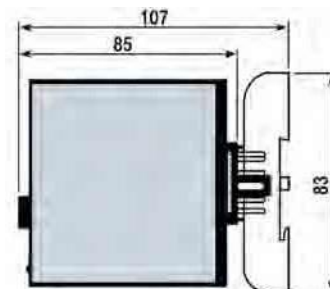
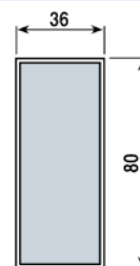
M1

ACCESSORIES

For Plug-In Modules



Accessories	Code
Timer box - Black	A1024BK
Retaining clip	RC
11 Pin base cover	BC
Bezel for panel mount	B2
Remote pot. 1mV	POT 1MEG
Remote pot. 10kV	POT 10K



External dimensions (mm) A1024BK

Standard time ranges

0.02 - 1 sec	0.05 - 30 min
0.05 - 3 sec	1 - 60 min
0.20 - 10 sec	2 - 120 min
0.50 - 30 sec	3 - 180 min
1 - 60 sec	0.08 - 5 hours
3 - 180 sec	0.1 - 6 hours
6 - 360 sec	0.13 - 8 hours
10 - 600 sec	0.26 - 16 hours
0.25 - 15 min	0.4 - 24 hours

All timers, 11 Pin and 8 Pin, above 360 seconds: prices differ.

8-Pin plug in timers

The following timers are available in 8 Pin: DP1, DP2, DP3, IP2, IP3, EP1, EP2, UP1, UP2, DDP1, DDP2, DDP3, DAP1, IAP1, SDP1, PP1, TSP1 and OSP1.