

Type: 45225

Level Control Relay (Pump Up, Pump Down)

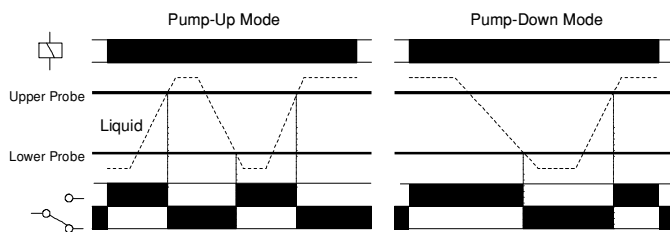
The unit is designed to control the maximum and/or minimum levels of conductive liquids (user selectable via front switch). When power is applied, the green "supply on" LED will illuminate. In the "Pump-Up" mode, the relay energises and the red LED illuminates when the level drops below the lower level probe then de-energises (red LED extinguishes) when the level rises above the upper level probe. In the "Pump-down" mode, the relay de-energises when the level drops below the lower level probe then re-energises when the level rises above the upper level probe.



Dims:
H.78 mm
W.45 mm
L.99 mm

Terminal Protection to IP20

TIMING DIAGRAM



INSTALLATION AND SETTING

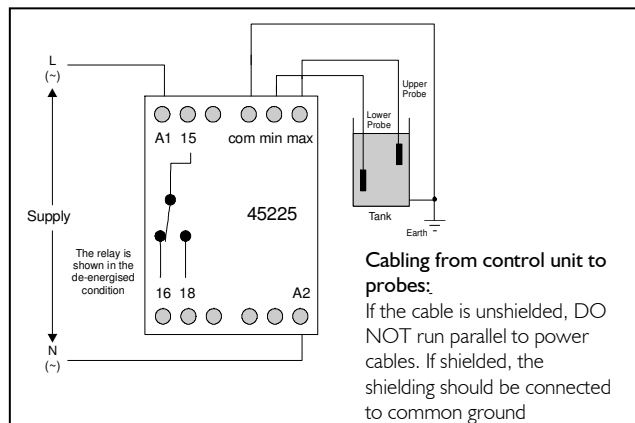
BEFORE INSTALLATION, ISOLATE THE SUPPLY. Connect the supply and the probes as shown in the diagram below. Set the '**sensitivity**' adjustment to minimum. Immerse both probes in the liquid to be monitored then apply power and the green '**supply on**' LED should illuminate. Rotate the '**sensitivity**' adjustment until the relay changes state. Remove the probes from the liquid and the relay should change state again. Now set the '**sensitivity**' adjustment midway between the setting obtained and maximum. This should now be the correct setting for the liquid. Finally, set the switch to '**pump-up**' or '**pump-down**' as required.

Note 1: If using a metal tank, connect terminal '**com**' and earth to the tank

Note 2: If the supply is interrupted for $\leq 0.5S$ in the 'pump-up' mode, the relay will energise immediately. In the 'pump-down' mode, the relay will remain de-energised.

Note 3: For single probe operation, link terminals '**com**' and '**max**'.

CONNECTION DIAGRAM



TECHNICAL SPECIFICATION

Supply Voltage U_n : 24, 110, 230, 400V AC 48 - 63Hz

Supply Variation: 85 - 115% of U_n

Isolation: Over voltage cat. III (IEC 664)

Power

Consumption: 1.5VA

Inter-Electrode

Voltage: $\approx 17V$ AC

Operate

Resistance: 5 to 100K Ω

Release Resistance: $\approx 7.5K\Omega$

Response Time: High Level - 100mS

Low Level - 500mS

Maximum Cable

Length: 100 metres (control unit to probes see note with connection diagram)

Ambient

Temperature: -20 to +60°C

Relative Humidity: +95%

Contact Rating:

AC 1 250V AC 10A (2500VA)

AC 15 250V AC 6A

DC 1 25V DC 10A (250W)

Electrical Life: Minimum 150,000 ops at rated load

Housing: Orange flame retardant UL94 VO

Weight: 224g approx.

Mounting Option: Onto 35mm symmetric DIN rail

to BS5584:1978

(ENSO 002, DIN 46277-3)

Terminal

Conductor Size: Max 2 x 1.5mm² stranded (terminated)

Max 2 x 2.5mm² solid

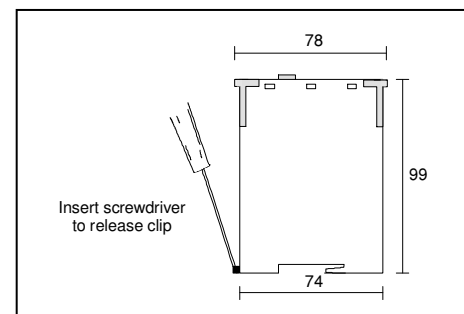
Approvals:

Conforms to: UL, CUL, CSA, IEC.

CE Compliant

For suitable probes/accessories see main product catalogue

MOUNTING DETAILS



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