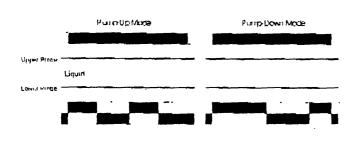
Type: 45225

Level Control Relay (Pump Up, Pump Down)

The unit is designed to control the maximum and/or minimum levels of conductive limits to the conductive limits and the conductive limits and the conductive limits are conductive limits and conductive limits are conductive limits are conductive limits and conductive limits are conductive limits are conductive limits are conductive limits and conductive limits are conductive limit selectable via front switch). When power is applied, the green "supply on" LED will illuminate. "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 lowerers level probe then re-energises when the level rises above the upper level probe.

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 ≤ 0.5 S 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'

Cabling from control unit to probes: If the cable is unshielded, DO NOT run parallel to power cables. If shielded, the

Broyce Control Ltd., मेंपेरी उस स्था Wilverhampton, West Midlands WV2 4HN. England

TECHNICAL SPECIFICATION

Supply Voltage Un: AC 48 - 63Hz

24, 110, 230, 400V

Supply Variation:

85 - 115% of Un Over voltage cat III

Isolation: (IEC 664)

Power

Consumption: 1.5VA Inter-Electrode

Voltage:

≈ 17V AC

Operate

Resistance: 5 to 100KΩ Release Resistance

Response Time: High Level - 100m5

Low Level - 500mS

Maximum Cable

Longih:

100 metres (control

unit to probes

see note with connection

diagram Ambient

Temperature: -20 to +60°C

Relative Humidity:

Contact Rating: SPDT

AC 1 250V AC 10A

(2500VA)

AC 15 250V AC 6A

25V DC 10A (250W) DC 1 Minimum 150,000 ops at

Electrical Life: rated load

Housing: rotardant UL94 VO Orange flame

Weight:

224g approx

Mounting Option:

Onto 35mm

symmetric DIN rail

to BS5584:1978

(ENSO 002, DIN 46277-3)

Terminal

IEC

Conductor Size:

Max 2 x 1,5mm³

stranded (terminated)

 $Max 2 \times 2.5mm^2$ solid

Approvals:

Conforms to: Ut, CUL, CS

CE Compliant

For suitable probes/accessories scelmain product, cutalogue

MOUNTING DETAIL

Telephone: +44-(0)-1902-773746-Facsimile: +44-(0) 1902-420639 Email: sales@broycecontrol.com the information provided in this literature is believed to be accurate (subject to change without prior notice); however, use of such 15225-1629 be