



Level control relay for emptying or filling function. Dual voltage. Modular version LVM30 Emptying or filling

Product designation

Product type designation

Function

Auxiliary supply

| | | |
|-------------------------|----|---------------|
| Supply voltage Type | | Dual voltage |
| Operating voltage range | | 0.85...1.1 Us |
| Rated frequency | Hz | 50/60 |
| Power consumption Max | VA | 5.5 |
| Power dissipation Max | W | 2.8 |

Output characteristics

| | | |
|----------------------------------|------|---|
| Number of connectable electrodes | Nr. | 3 |
| Type of electrode | | Electrode and electrode holders: SN1 / SCM / CGL / PS31 / PS3S or similar |
| Electrode voltage | | 7.5 VAC |
| Sensitivity | kohm | 2.5...50 adjustable |

Time delay

| | | |
|----------------------|---|-----------|
| Tripping time | s | 1 |
| Resetting time | s | 1 |
| Probe tripping delay | | OFF...10s |

Relay outputs

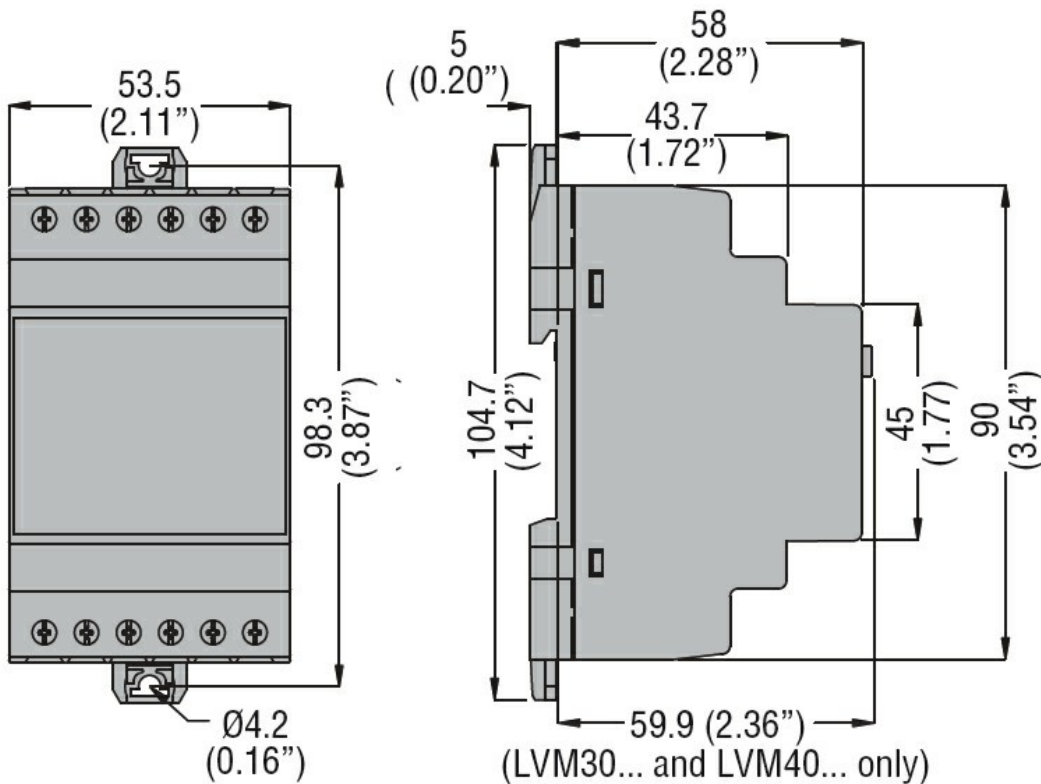
| | | |
|---|--------|--|
| Number of relays | Nr. | 2 |
| Relay state | | Normally de-energised, energises at tripping |
| Contact arrangement | | 2 changeover contacts C/O-SPDT each |
| Rated operational voltage AC (IEC) | VAC | 250 |
| Maximum switching voltage | VAC | 400 |
| IEC Conventional free air thermal current Ith | A | 8 |
| UL/CSA and IEC/EN 60947-5-1 designation | | B300 |
| Electrical life (with rated load) | cycles | 10 ⁵ |
| Mechanical life | cycles | 30x10 ⁶ |

Indications

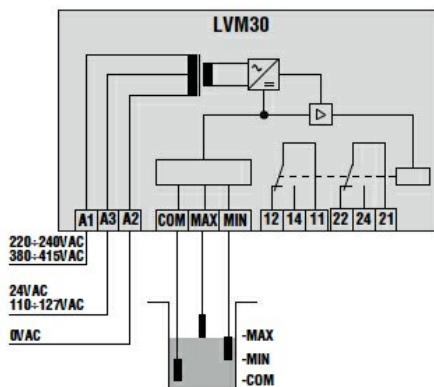
| | | | | |
|--|-----------------------|-----|-----------------|--|
| Indication | | | | 1 green LED for power on 1 red LED for relay state |
| Functions | | | | |
| 3 detecting electrodes (MIN, MAX and COM) | | | | Yes |
| 5 detecting electrodes (MIN1, MAX1, MIN2, MAX2 and COM) | | | | No |
| Sensitivity adjustment 2.5...50k Ω | | | | Yes |
| Sensitivity adjustment 2.5...100k Ω | | | | No |
| Sensitivity adjustment 2.5...200k Ω | | | | No |
| Adjustable sensitivity full-scale value 25-50-100-200 k Ω | | | | No |
| Separate sensitivity adjustment for MAX probe (foam detection) | | | | No |
| Emptying function | | | | Yes |
| Filling function | | | | Yes |
| Emptying function with MIN and/or MAX alarm | | | | No |
| Filling function with MIN and/or MAX alarm | | | | No |
| Emptying function with pump priority change | | | | No |
| Filling function with pump priority change | | | | No |
| Tank filling, well drawing and alarm | | | | No |
| Filling-emptying adjustment selector | | | | Yes |
| Programming selector for 5 different | | | | No |
| Motor start-up priority change | | | | No |
| Connections | | | | |
| Terminals type | | | | Screw |
| Tightening torque for terminals | | max | Nm | 0.8 |
| | | max | Ibin | 7 |
| Conductor cross section | | | | |
| | AWG/Kcmil | min | AWG | 24 |
| | | Max | AWG | 12 |
| | IEC | min | mm ² | 0.2 |
| | | Max | mm ² | 4 |
| Insulations | | | | |
| Rated insulation voltage Ui | | | V | 415 |
| Rated impulse withstand voltage Uimp | | | kV | 6 |
| Operating frequency withstand voltage | | | kV | 4 |
| Double insulation Supply / relay / electrode | | | VAC | ≤250 |
| Ambient conditions | | | | |
| Temperature | | | | |
| | Operating temperature | min | °C | -20 |
| | | max | °C | +60 |
| | Storage temperature | min | °C | -30 |
| | | max | °C | +80 |
| Housing | | | | |
| Execution | | | | Modular DIN rail mounting |
| N° of modules | | | | 3 |
| Material | | | | Self-extinguishing polyamide |

| | | |
|--------------------------|---|---------------------|
| Mounting | 35mm DIN rail (IEC/EN 60715) or by screws using extractable clips | |
| IEC degree of protection | IP40 on front / IP20 on terminals | |
| Dimensions (W x H x D) | mm | 53.5 x 104.7 x 64.9 |
| Weight | g | 315 |

Dimensions [mm (in)]



Wiring diagrams



Certifications and compliance

Compliance

- CSA C22.2 n° 14
- IEC/EN 60255-5
- IEC/EN 61000-6-2
- IEC/EN 61000-6-3
- UL508

Certificates

cULus

EAC

ETIM classification

ETIM 8.0

EC001447 - (Fill)
level monitoring
relay