



Level control relay LVM25240 with 2 x SN1 electrodes kit LVM25 Emptying or filling

Product designation

Product type designation

Function

**Auxiliary supply**

|                         |    |                  |
|-------------------------|----|------------------|
| Supply voltage Type     |    | Multi voltage    |
| Rated voltage $U_s$     |    | 24...240VAC/DC   |
| Operating voltage range |    | 0.85...1.1 $U_s$ |
| Rated frequency         | Hz | 50/60            |
| Power consumption Max   | VA | 3                |
| Power dissipation Max   | W  | 1.2              |

**Output characteristics**

|                                  |      |   |
|----------------------------------|------|---|
| Number of connectable electrodes | Nr.  | 3   |
| Type of electrode                |      | Electrode and electrode holders: SN1 / SCM / CGL / PS31 / PS3S or similar |
| Electrode voltage                |      | 10 V <sub>pp</sub>  |
| Sensitivity                      | kohm | 2.5...100 adjustable  |

**Time delay**

|                |   |    |
|----------------|---|----|
| Tripping time  | s | ≤1 |
| Resetting time | s | ≤1 |

**Relay outputs**

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

**Indications**

|            |  |  |
|------------|--|--|
| Indication |  | 1 green LED for power on 1 red LED for relay state |
|------------|--|--|

### Connections

|                                 |       |                 |     |
|---------------------------------|-------|-----------------|-----|
| Terminals type                  | Screw |                 |     |
| Tightening torque for terminals | max   | Nm              | 0.8 |
|                                 | max   | lbin            | 7   |
| Conductor cross section         |       |                 |     |
| AWG/Kcmil                       | min   | AWG             | 24  |
|                                 | Max   | AWG             | 12  |
| IEC                             | min   | mm <sup>2</sup> | 0.2 |
|                                 | Max   | mm <sup>2</sup> | 4   |

### Insulations

|  |     |      |
|--|-----|------|
| Rated insulation voltage Ui                  | V   | 240  |
| Rated impulse withstand voltage Uimp         | kV  | 4    |
| Operating frequency withstand voltage        | kV  | 2    |
| Double insulation Supply / relay / electrode | VAC | ≤250 |

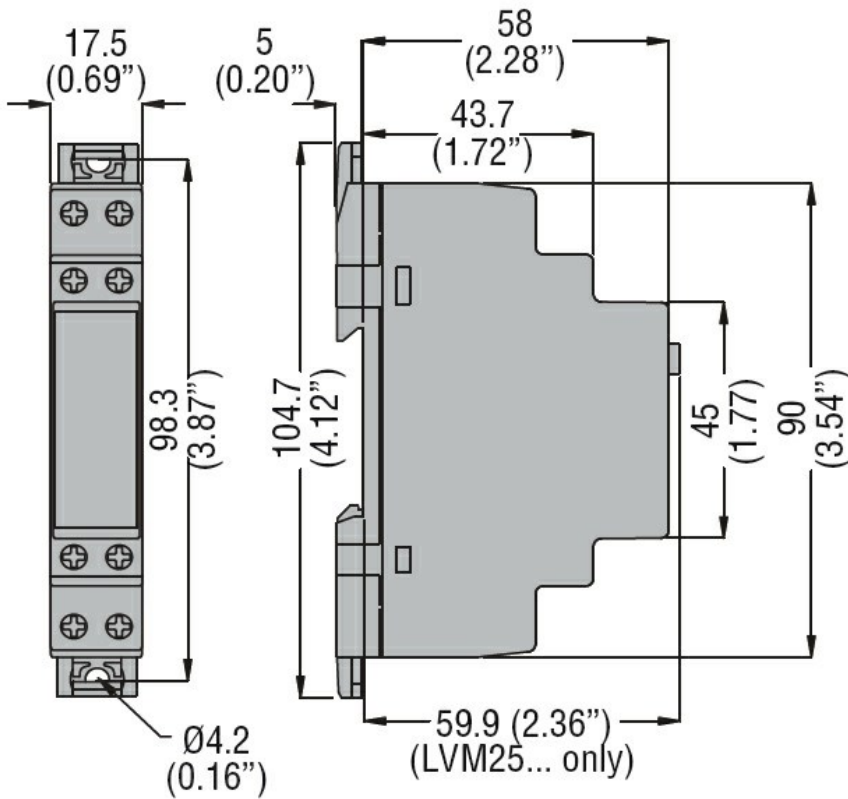
### Ambient conditions

|                       |     |    |     |
|-----------------------|-----|----|-----|
| Temperature           |     |    |     |
| Operating temperature | min | °C | -20 |
|                       | max | °C | +60 |
| Storage temperature   | min | °C | -30 |
|                       | max | °C | +80 |

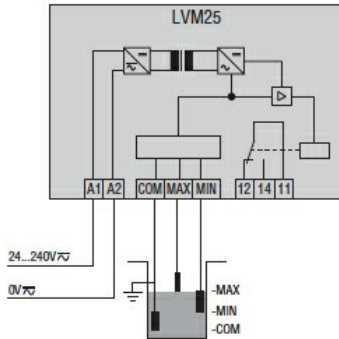
### Housing

|                          |   |                     |  |
|--------------------------|---|---------------------|--|
| Execution                | Modular DIN rail mounting   |                     |  |
| N° of modules            | 1   |                     |  |
| 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  | 17.5 x 104.7 x 64.9 |  |
| Weight                   | g   | 192                 |  |

### 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

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### ETIM classification

ETIM 8.0

EC001447 - (Fill)  
level monitoring  
relay