



Level control relay for emptying or filling function. Multi voltage. Modular version  
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**

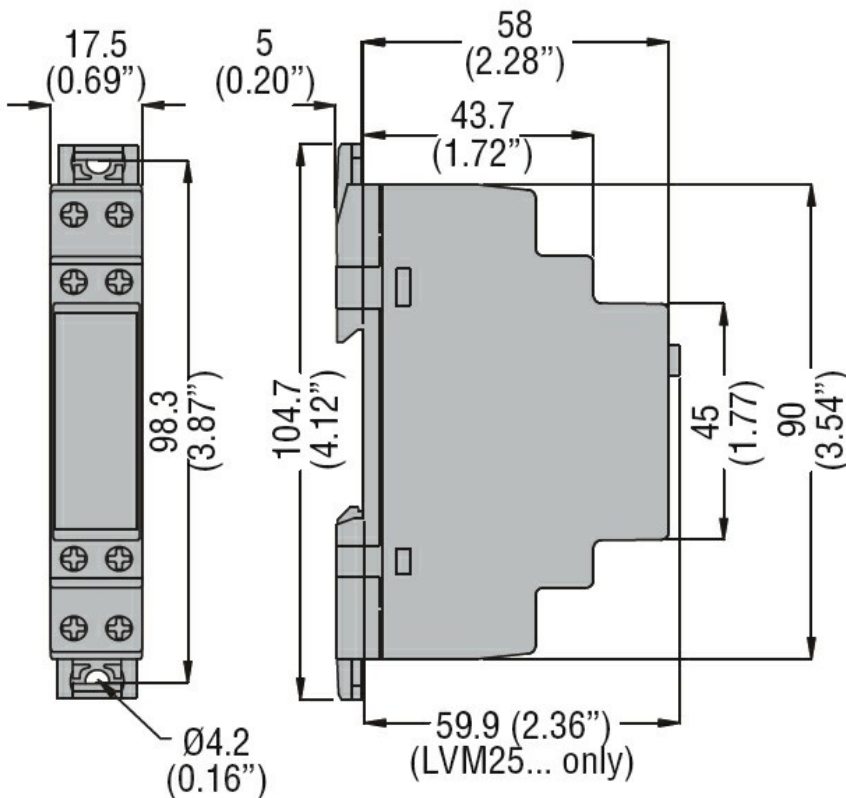
|   |  |                    |
|---|--|--------------------|
| Number of relays  | Nr.  | 1                  |
| Relay state   | Normally de-energised, energises at tripping |                    |
| Contact arrangement                                       | 1 changeover contact C/O-SPDT                |                    |
| 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**

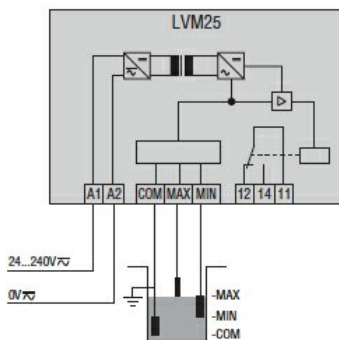
|  |     |                    |     |  |
|--|-----|--------------------|-----|--|
| Indication   |     |                    |     | 1 green LED for power on 1 red LED for relay state |
| <b>Functions</b>   |     |                    |     |  |
| 3 detecting electrodes (MIN, MAX and COM)                        |     |                    |     | Yes  |
| 5 detecting electrodes (MIN1, MAX1, MIN2, MAX2 and COM)          |     |                    |     | No   |
| Sensitivity adjustment 2.5...50k $\Omega$                        |     |                    |     | No   |
| Sensitivity adjustment 2.5...100k $\Omega$                       |     |                    |     | Yes  |
| Sensitivity adjustment 2.5...200k $\Omega$                       |     |                    |     | No   |
| Adjustable sensitivity full-scale value 25-50-100-200 k $\Omega$ |     |                    |     | 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   |
| <b>Connections</b>   |     |                    |     |  |
| 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   |  |
| <b>Insulations</b>   |     |                    |     |  |
| Rated insulation voltage $U_i$                                   |     |                    | V   | 240  |
| Rated impulse withstand voltage $U_{imp}$                        |     |                    | kV  | 4  |
| Operating frequency withstand voltage                            |     |                    | kV  | 2  |
| Double insulation Supply / relay / electrode                     |     |                    | VAC | $\leq 250$   |
| <b>Ambient conditions</b>  |     |                    |     |  |
| Temperature  |     |                    |     |  |
| Operating temperature  | min | $^{\circ}\text{C}$ | -20 |  |
|  | max | $^{\circ}\text{C}$ | +60 |  |
| Storage temperature  | min | $^{\circ}\text{C}$ | -30 |  |
|  | max | $^{\circ}\text{C}$ | +80 |  |
| <b>Housing</b>   |     |                    |     |  |
| 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   | 95                  |

**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

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Certificates

cULus

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EAC

ETIM classification

ETIM 8.0

EC001447 - (Fill)  
level monitoring  
relay