



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<br>electrode<br>holders: SN1 /<br>SCM / CGL /<br>PS31 / PS3S or<br>similar |   |

|                   |            |                         |
|-------------------|------------|-------------------------|
| Electrode voltage | 10 Vpp     |                         |
| Sensitivity       | k $\Omega$ | 2.5...100<br>adjustable |

#### Time delay

|                |   |          |
|----------------|---|----------|
| Tripping time  | s | $\leq 1$ |
| Resetting time | s | $\leq 1$ |

#### Relay outputs

|                  |                                                        |   |
|------------------|--------------------------------------------------------|---|
| Number of relays | Nr.                                                    | 1 |
| Relay state      | Normally de-<br>energised,<br>energises at<br>tripping |   |

|                     |                                      |  |
|---------------------|--------------------------------------|--|
| Contact arrangement | 1 changeover<br>contact C/O-<br>SPDT |  |
|---------------------|--------------------------------------|--|

|                                                    |        |                  |
|----------------------------------------------------|--------|------------------|
| Rated operational voltage AC (IEC)                 | VAC    | 250              |
| Maximum switching voltage                          | VAC    | 400              |
| IEC Conventional free air thermal current $I_{th}$ | A      | 8                |
| UL/CSA and IEC/EN 60947-5-1 designation            | B300   |                  |
| Electrical life (with rated load)                  | cycles | $10^5$           |
| Mechanical life                                    | cycles | $30 \times 10^6$ |

#### 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 $\Omega$                        | 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  |

### 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 <sup>2</sup> | 0.2 |
|                                 | Max   | mm <sup>2</sup> | 4   |

### Insulations

|                                              |     |            |
|----------------------------------------------|-----|------------|
| 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 | $\leq 250$ |

### Ambient conditions

Temperature

Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -20 |
| max | °C | +60 |

Storage temperature

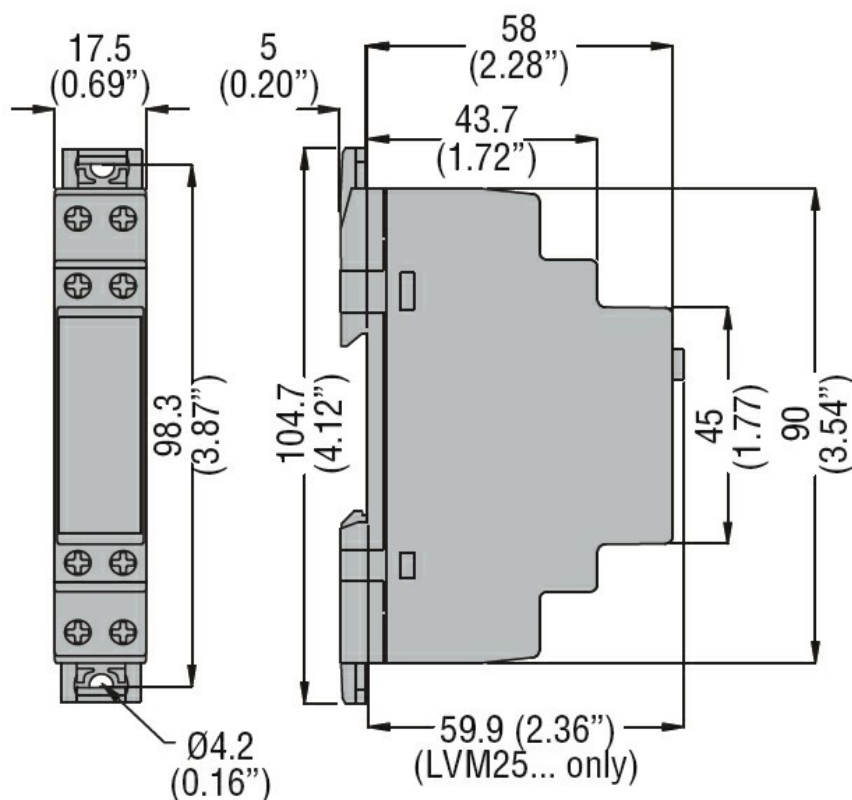
|     |    |     |
|-----|----|-----|
| min | °C | -30 |
| max | °C | +80 |

### Housing

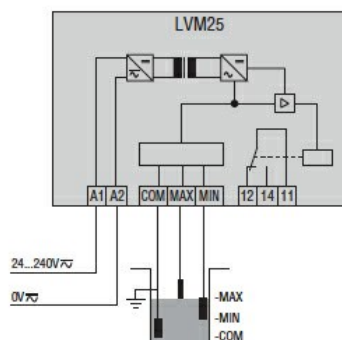
|               |                              |
|---------------|------------------------------|
| Execution     | Modular DIN rail mounting    |
| N° of modules | 1                            |
| Material      | Self-extinguishing polyamide |

|                          |                                                                               |                        |
|--------------------------|-------------------------------------------------------------------------------|------------------------|
| Mounting                 | 35mm DIN rail<br>(IEC/EN 60715)<br>or by screws<br>using extractable<br>clips |                        |
| IEC degree of protection | IP40 on front /<br>IP20 on terminals                                          |                        |
| Dimensions (W x H x D)   | mm                                                                            | 17.5 x 104.7 x<br>64.9 |
| Weight                   | g                                                                             | 95                     |

### Dimensions



### 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