# LVMKIT20A240

LEVEL CONTROL STARTER KIT COMPLETE WITH LVM20A240 RELAY AND TWO SN1 ELECTRODES



| | | | |
|---|---|---|---|
| Product designation | | | Level control relay for emptying function. Single voltage. Modular version - KIT |
| Product type designation | | | LVMKIT20 |
| Function | | | Emptying |
| **Auxiliary supply** | | | |
| Supply voltage Type | | | Single voltage |
| Rated auxiliary supply voltage Us AC | | | |
| | min | VAC | 220 |
| | Max | VAC | 240 |
| Operating voltage range | | | 0.85...1.1 Us |
| Rated frequency | | Hz | 50/60 |
| Power consumption Max | | VA | 3.5 |
| Power dissipation Max | | W | 1.8 |
| **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 | | kΩ | 2.5...50 adjustable |
| **Time delay** | | | |
| Tripping time | | s | ≤0.6 |
| Resetting time | | s | ≤0.75 |
| **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 Ith | | A | 8 |
| UL/CSA and IEC/EN 60947-5-1 designation | | | B300 |
| Electrical life (with rated load) | | cycles | $10^5$ |
| Mechanical life | | cycles | $30x10^6$ |

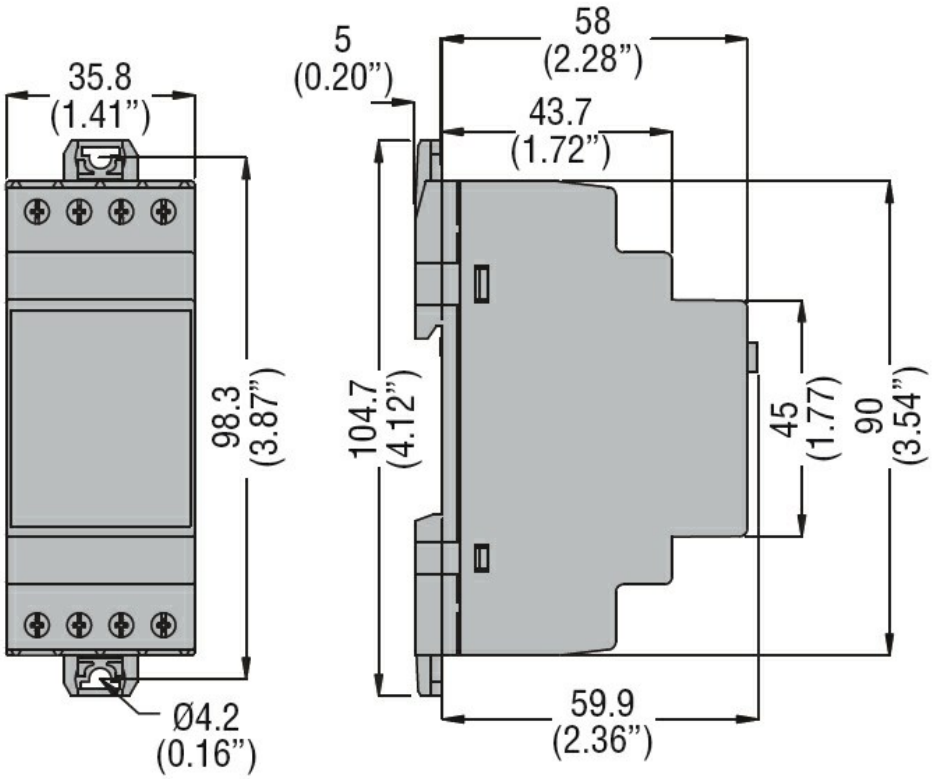

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

| | | | |
|---|---|---|---|
| **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 | | | No |
| 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 | | | No |
| 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 | mm² | 0.2 |
| | Max | mm² | 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 | | | 2 |

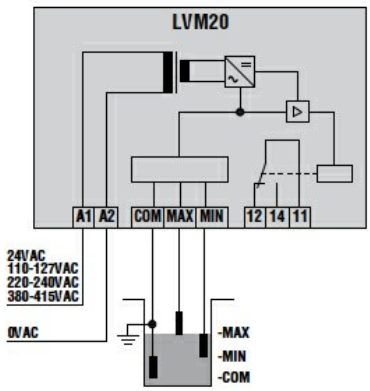

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

| | | |
|---|---|---|
| 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 | 35.8 x 104.7 x 64.9 |
| Weight | g | 215 |

## 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 |


The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

| | |
|---|---|
| | UL508 |
| Certificates | |
| | / |

## ETIM classification

| | |
|---|---|
| ETIM 8.0 | EC001447 - (Fill) level monitoring relay |


The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding