2223



LEVEL MONITORING RELAY, MODULAR VERSION, SINGLE-VOLTAGE. AUTOMATIC RESETTING, 220...240VAC

| | | AT AZ 11 1 |
|---|-----------|--|
| Product designation | | Level control relay for emptying function. Single voltage. Modular version |
| Product type designation | | LVM20 |
| Function | | Emptying |
| Auxiliary supply | | |
| Supply voltage Type | | Single voltage |
| Rated auxiliary supply voltage Us | | |
| AC | min VAC | 220 |
| | Max VAC | |
| Operating voltage range | IVIAX VAC | 0.851.1 Us |
| Rated frequency | Hz | 50/60 |
| Power consumption Max | VA | 3.5 |
| Power dissipation Max | W | 1.8 |
| Output characteristics | *** | 1.0 |
| 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 |
| | | 2.5 50 |
| Sensitivity | kΩ | 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 | |
| Maximum switching voltage | VAC | |
| IEC Conventional free air thermal current Ith | А | 8 |
| UL/CSA and IEC/EN 60947-5-1 designation | | B300 |
| Electrical life (with rated load) | cycle | |
| | • | |

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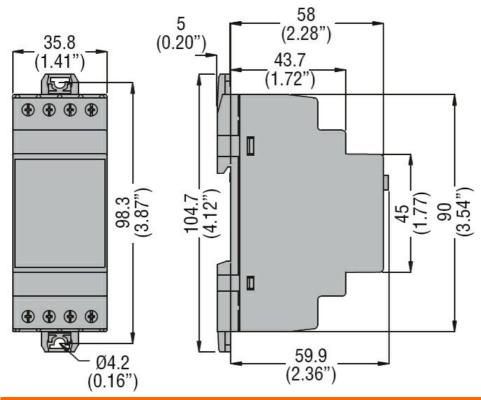
| Indications | | | |
|--|-----|------|------------------|
| | | | 1 green LED for |
| Indication | | | power on 1 red |
| indication | | | LED for relay |
| | | | state |
| Functions | | | |
| 3 detecting electrodes (MIN, MAX and COM) | | | Yes |
| 5 detecting electrodes (MIN1, MAX1, MIN2, MAX2 and COM | | | No |
| Sensitivity adjustment 2.550k Ω | | | Yes |
| Sensitivity adjustment 2.5100k Ω | | | No |
| Sensitivity adjustment 2.5200k 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 | lbin | 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 |
| 9 | | | mounting |
| N° of modules | | | 2 |

ENERGY AND AUTOMATION

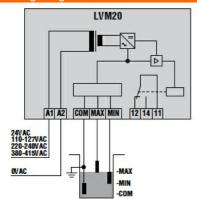
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| Material | | Self-extinguishing polyamide |
|--------------------------|----|---|
| Mounting | | 35mm DIN rail (IEC/EN 60715) or by screws using extractable clips |
| IEC degree of protection | | IP40 on front / IP20 on terminals |
| Dimensions (W 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



LVM20A240

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| | UL508 | |
|---------------------|-------|--|
| Certificates | | |
| | cULus | |
| | EAC | |
| ETIM classification | | |
| ETIM 8.0 | | EC001447 - (Fill) level monitoring relay |