



Level control relay for emptying function. Single voltage. Modular version LVM20 Emptying

Product designation

Product type designation

Function

**Auxiliary supply**

Supply voltage Type Single voltage

Rated auxiliary supply voltage  $U_s$   
AC

min VAC 24

Operating voltage range 0.85...1.1  $U_s$

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 kohm 2.5...50 adjustable

**Time delay**

Tripping time s  $\leq 0.6$

Resetting time s  $\leq 0.75$

**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  $I_{th}$  A 8

UL/CSA and IEC/EN 60947-5-1 designation B300

Electrical life (with rated load) cycles  $10^5$

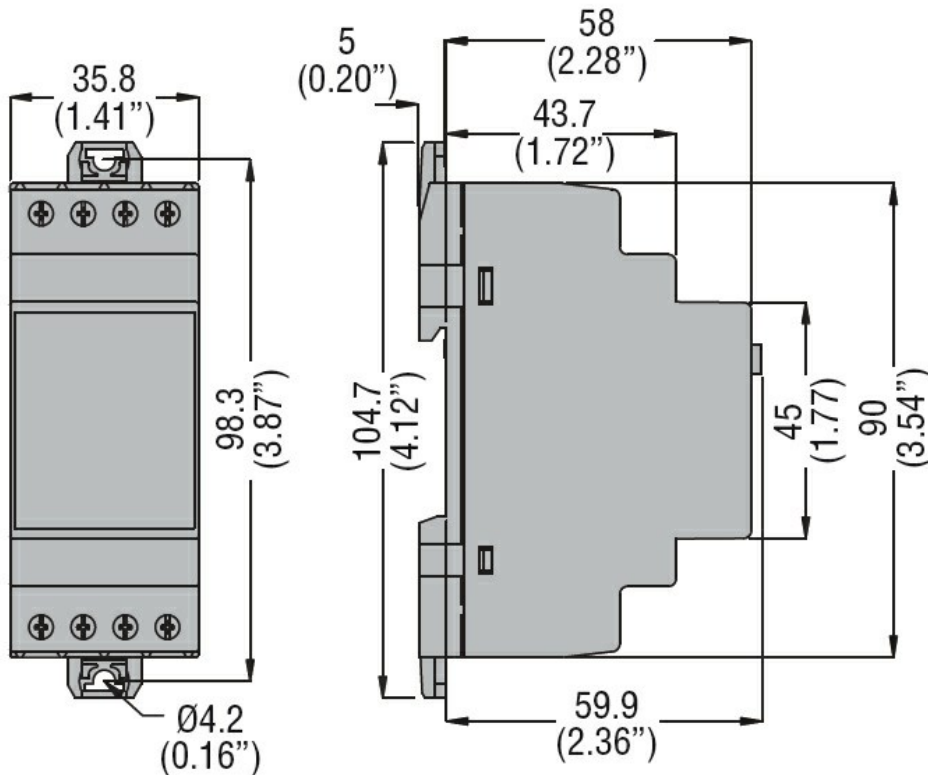
Mechanical life cycles  $30 \times 10^6$

**Indications**

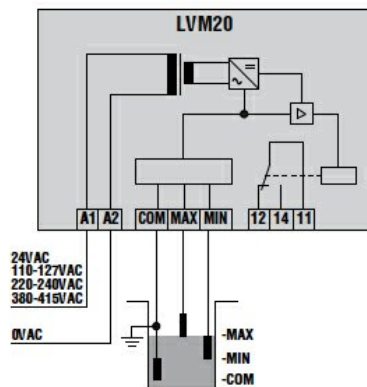
Indication				1 green LED for power on 1 red LED for relay state
<b>Functions</b>				
3 detecting electrodes (MIN, MAX and COM)				Yes
5 detecting electrodes (MIN1, MAX1, MIN2, MAX2 and COM)				No
Sensitivity adjustment 2.5...50k Ω				Yes
Sensitivity adjustment 2.5...100k Ω				No
Sensitivity adjustment 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
<b>Connections</b>				
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
<b>Insulations</b>				
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
<b>Ambient conditions</b>				
Temperature				
	Operating temperature	min	°C	-20
		max	°C	+60
	Storage temperature	min	°C	-30
		max	°C	+80
<b>Housing</b>				
Execution				Modular DIN rail mounting
N° of modules				2
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 [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**

cULus  
EAC

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ETIM classification

ETIM 8.0

EC001447 - (Fill)  
level monitoring  
relay