



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
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Rated auxiliary supply voltage U_s AC	
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	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
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Type of electrode

Electrode and
electrode
holders: SN1 /
SCM / CGL /
PS31 / PS3S or
similar

Electrode voltage		7.5 VAC
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Sensitivity	k Ω	2.5...50 adjustable
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Time delay

Tripping time	s	≤ 0.6
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Resetting time	s	≤ 0.75
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Relay outputs

Number of relays	Nr.	1
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Relay state

Normally de-
energised,
energises at
tripping

Contact arrangement

1 changeover
contact C/O-
SPDT

Rated operational voltage AC (IEC)	VAC	250
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Maximum switching voltage	VAC	400
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IEC Conventional free air thermal current I_{th}	A	8
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UL/CSA and IEC/EN 60947-5-1 designation		B300
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Electrical life (with rated load)	cycles	10^5
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Mechanical life	cycles	30×10^6
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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	mm ²	0.2
	Max	mm ²	4

Insulations

Rated insulation voltage U_i	V	415
Rated impulse withstand voltage U_{imp}	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

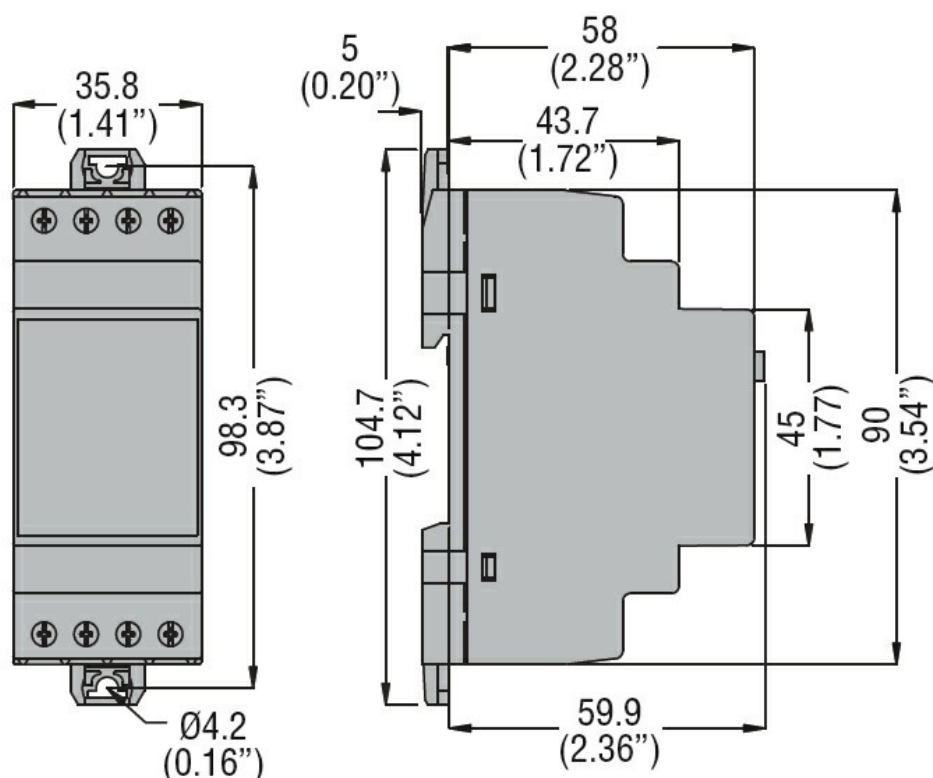
min	°C	-30
max	°C	+80

Housing

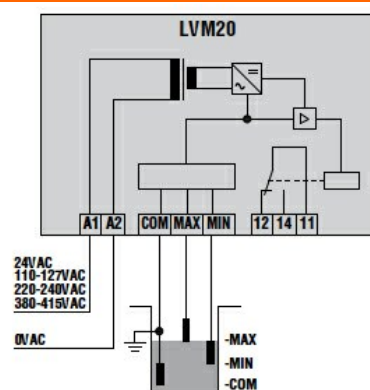
Execution	Modular DIN rail mounting
N° of modules	2
Material	Self-extinguishing polyamide

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

UL508

Certificates

cULus

EAC

ETIM classification

ETIM 8.0

EC001447 - (Fill)
level monitoring
relay