



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

Product designation

Product type designation

Function

Auxiliary supply

Supply voltage Type	Single voltage		
Rated auxiliary supply voltage U_s			
AC	min	VAC	220
	Max	VAC	240
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	N°	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
Time delay		
Tripping time	s	≤0.6
Resetting time	s	≤0.75
Relay outputs		
Number of relays	N°	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	105
Mechanical life	cycles	30x106

Indications

Indication	1 green LED for power on 1 red LED for relay state
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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	mm ²	0.2
			Max	mm ²	4
Maximum cable lenght			m / ft		800m max / sensitivity 2.5kΩ 150m max / sensitivity 25kΩ 100m max / sensitivity 50kΩ Calculated using 600V 3-core 0.75mm2 section cables.

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

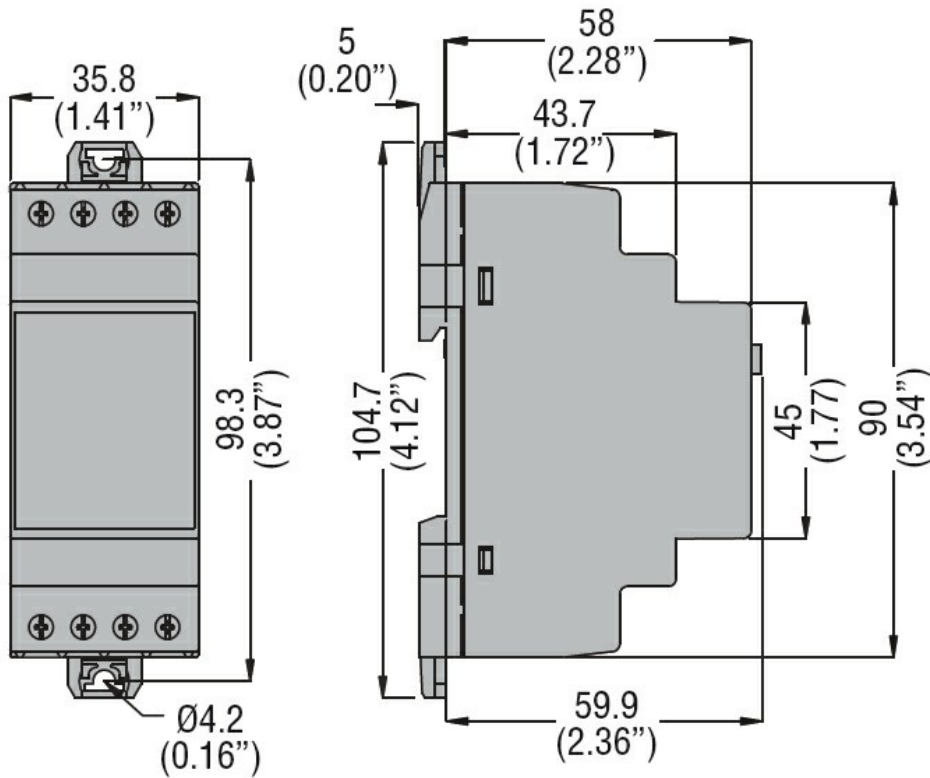
Ambient conditions

Temperature	Operating temperature	min max	°C °C	-20 +60
	Storage temperature	min max	°C °C	-30 +80

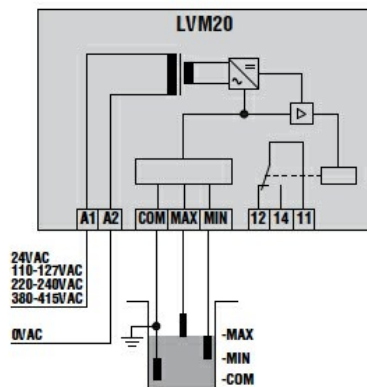
Housing

Execution		Modular
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