



Product designation

Product type designation

Function

Level control relay multifunction. Single voltage. Modular version LVM40 Multifunction: emptying and alarms, filling and alarms, emptying with priority start-up change, filling with priority start-up change, well draining and tank filling and alarms

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	4.5
Power dissipation Max		W	2.8

Output characteristics

Number of connectable electrodes	Nr.	5
Type of electrode	Electrode and electrode holders: SN1 / SCM / CGL / PS31 / PS3S or similar	
Electrode voltage	10 Vpp	
Sensitivity	k Ω	2.5...200 adjustable
Time delay		
Tripping time	s	1
Resetting time	s	1
Probe tripping delay	1...10s	
Relay outputs		
Number of relays	Nr.	2
Relay state	Normally de-energised, energises at tripping	

Contact arrangement		1 changeover contact C/O-SPDT + 1 contact NO-SPST
Rated operational voltage AC (IEC)	VAC	250
Maximum switching voltage	VAC	400
IEC Conventional free air thermal current $I_{th} \leq 40^{\circ}\text{C}$	A	8
UL/CSA and IEC/EN 60947-5-1 designation		B300
Electrical life (with rated load)	cycles	10^5
Mechanical life	cycles	30×10^6

Indications

Indication	1 green LED indicator for power on 2 red LEDs for relay state 2 red LEDs for probe state
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Functions

3 detecting electrodes (MIN, MAX and COM)	No
5 detecting electrodes (MIN1, MAX1, MIN2, MAX2 and COM)	Yes
Sensitivity adjustment 2.5...50k Ω	No
Sensitivity adjustment 2.5...100k Ω	No
Sensitivity adjustment 2.5...200k Ω	Yes
Adjustable sensitivity full-scale value 25-50-100-200 k Ω	Yes
Separate sensitivity adjustment for MAX probe (foam detection)	Yes
Emptying function	Yes
Filling function	Yes
Emptying function with MIN and/or MAX alarm	Yes
Filling function with MIN and/or MAX alarm	Yes
Emptying function with pump priority change	Yes
Filling function with pump priority change	Yes
Tank filling, well drawing and alarm	Yes
Filling-emptying adjustment selector	No
Programming selector for 5 different	Yes
Motor start-up priority change	No

Connections

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

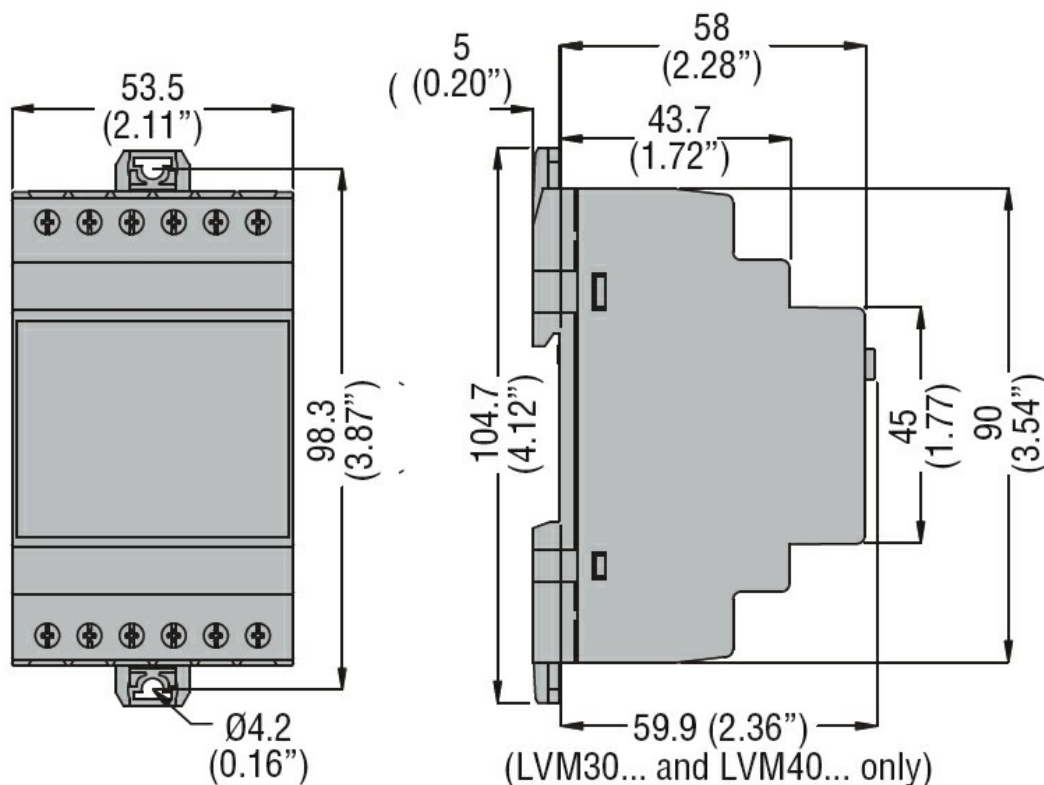
Storage temperature

min	°C	-30
max	°C	+80

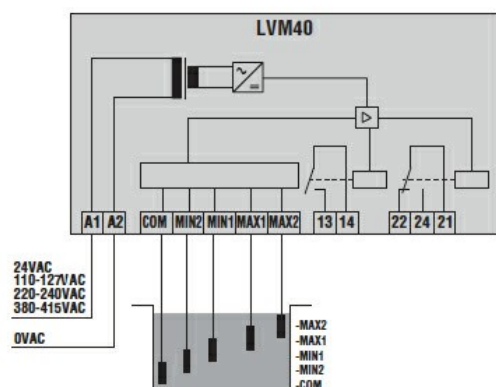
Housing

Execution	Modular DIN rail mounting
N° of modules	3
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 53.5 x 104.7 x 64.9
Weight	g 278

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