



Level control
relay for
emptying or filling
function. Dual
voltage. Modular
version
LVM30
Emptying or filling

Product designation

Product type designation

Function

Auxiliary supply

Supply voltage Type	Dual voltage	
Rated voltage U_s	110... 127VAC/380... 415VAC	
Operating voltage range	0.85...1.1 U_s	
Rated frequency	Hz	50/60
Power consumption Max	VA	5.5
Power dissipation Max	W	2.8

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	k Ω	2.5...50 adjustable

Time delay

Tripping time	s	1
Resetting time	s	1
Probe tripping delay	OFF...10s	

Relay outputs

Number of relays	Nr.	2
Relay state	Normally de- energised, energises at tripping	
Contact arrangement	2 changeover contacts C/O- SPDT each	
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	30x10 ⁶

Indications

Indication	1 green LED for power on 1 red LED for relay state
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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	Yes
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	Yes
Programming selector for 5 different	No
Motor start-up priority change	No

Connections

Terminals type	Screw		
Tightening torque for terminals	max max	Nm lbin	0.8 7
Conductor cross section			
AWG/Kcmil	min Max	AWG AWG	24 12
IEC	min Max	mm ² mm ²	0.2 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

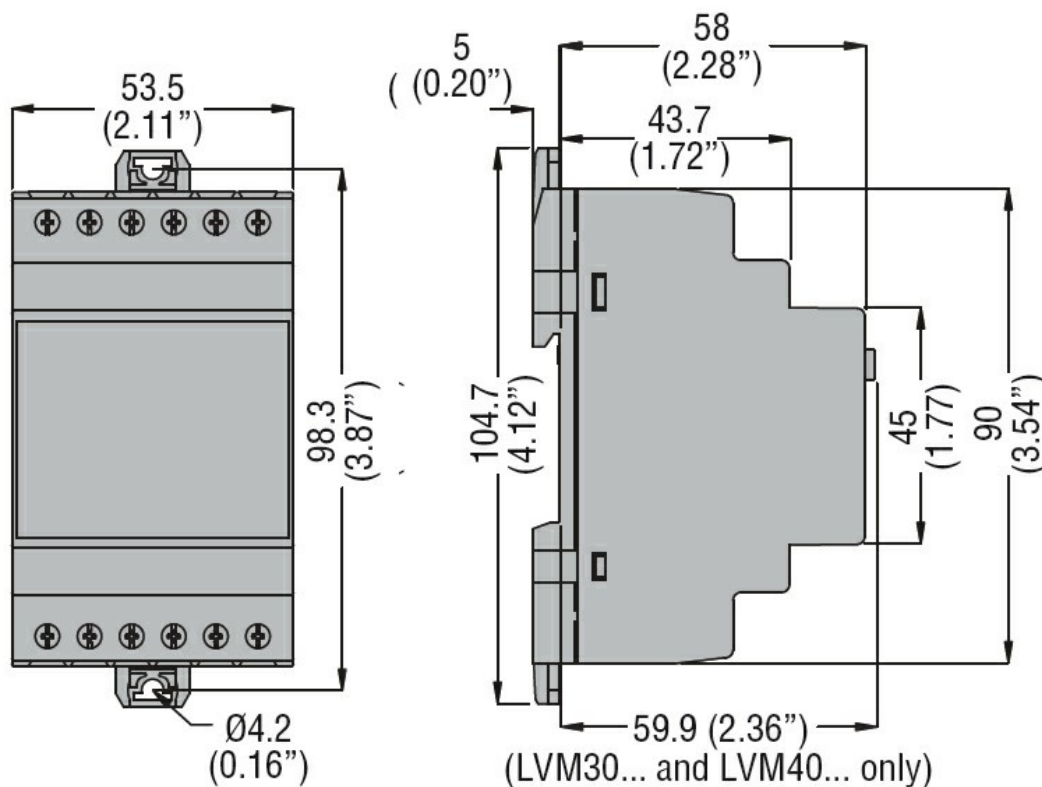
Temperature			
Operating temperature	min max	°C °C	-20 +60
Storage temperature	min max	°C °C	-30 +80

Housing

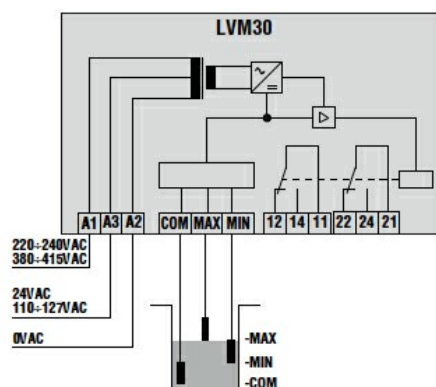
Execution	Modular DIN rail mounting
N° of modules	3

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	315

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