



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
Operating voltage range		0.85...1.1 Us
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	kΩ	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

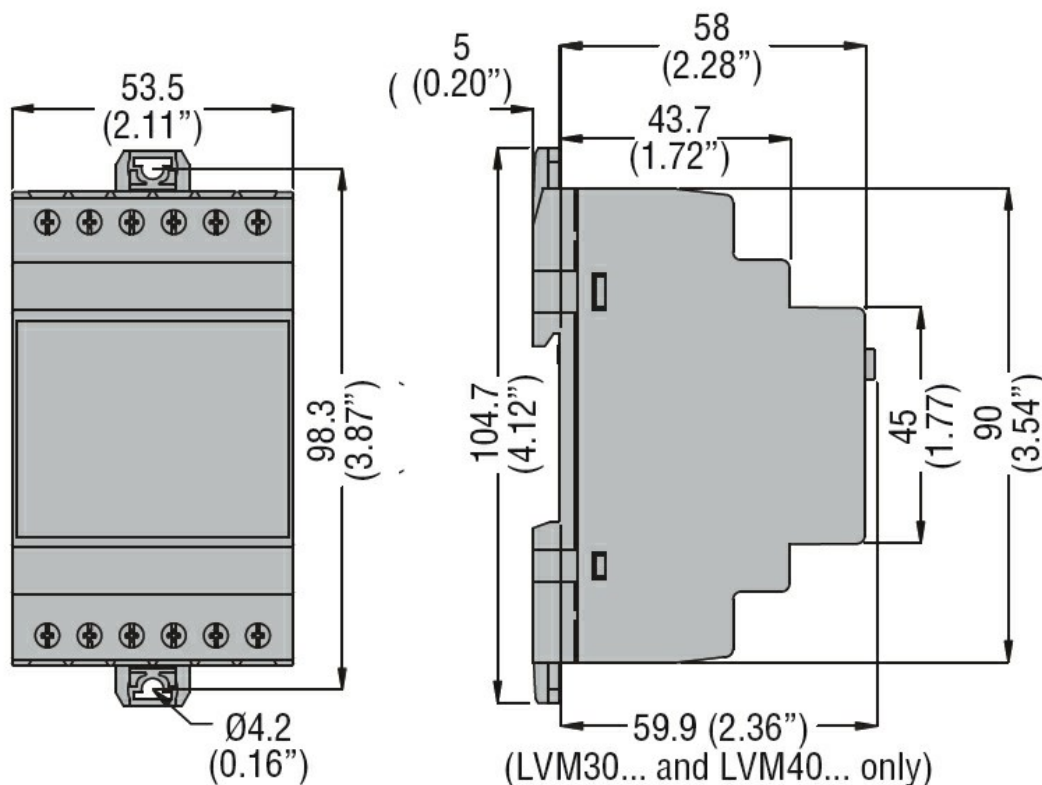
Rated operational voltage AC (IEC)	VAC	250
Maximum switching voltage	VAC	400
IEC Conventional free air thermal current Ith	A	8
UL/CSA and IEC/EN 60947-5-1 designation		B300
Electrical life (with rated load)	cycles	10 ⁵
Mechanical life	cycles	30x10 ⁶

Indications

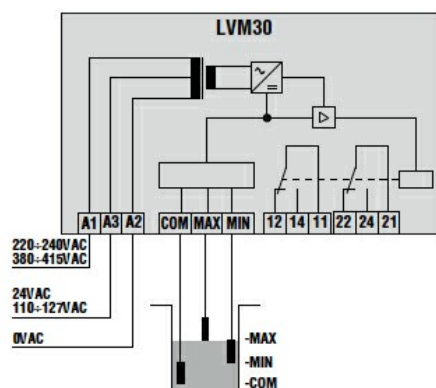
Indication				1 green LED for power on 1 red LED for relay state
Functions				
3 detecting electrodes (MIN, MAX and COM)				Yes
5 detecting electrodes (MIN1, MAX1, MIN2, MAX2 and COM)				No
Sensitivity adjustment 2.5...50k Ω				Yes
Sensitivity adjustment 2.5...100k Ω				No
Sensitivity adjustment 2.5...200k 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	Nm	0.8	
	max	Ibin	7	
Conductor cross section				
AWG/Kcmil	min	AWG	24	
	Max	AWG	12	
IEC	min	mm²	0.2	
	Max	mm²	4	
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	°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 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