



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
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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
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Relay state

Normally de-  
energised,  
energises at  
tripping

Contact arrangement

2 changeover  
contacts C/O-  
SPDT each

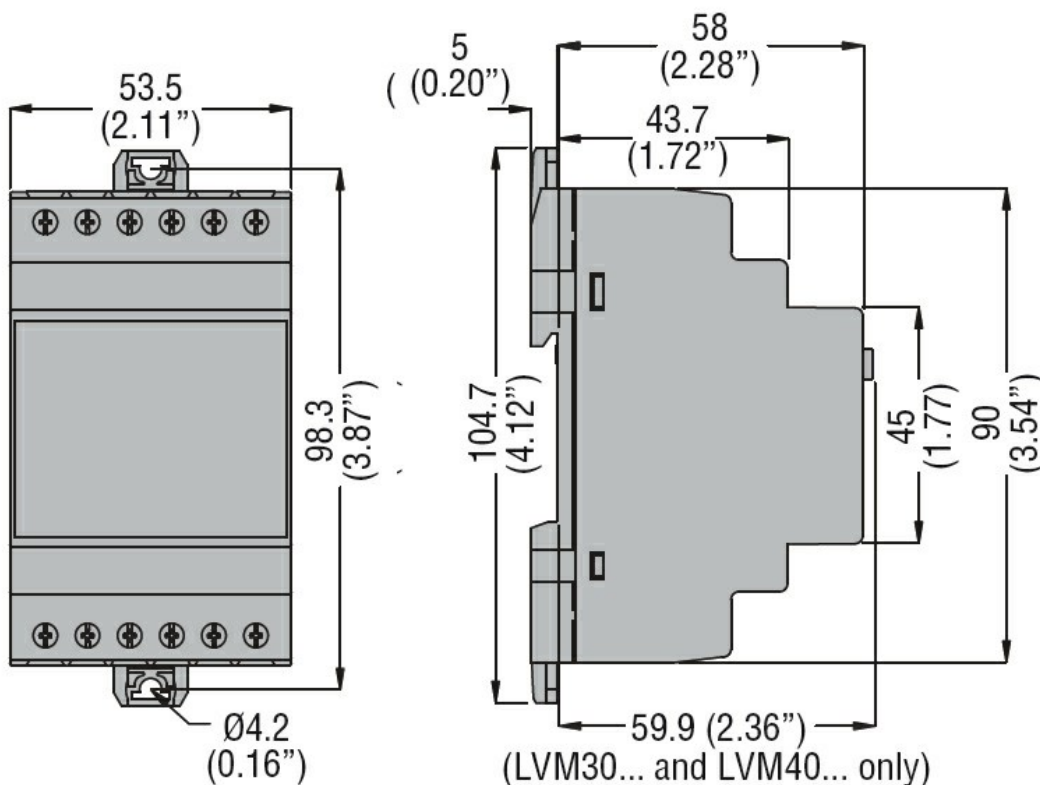
Rated operational voltage AC (IEC)	VAC	250
Maximum switching voltage	VAC	400
IEC Conventional free air thermal current Ith	A	8
UL/CSA and IEC/EN 60947-5-1 designation		B300
Electrical life (with rated load)	cycles	10 <sup>5</sup>
Mechanical life	cycles	30x10 <sup>6</sup>

#### Indications

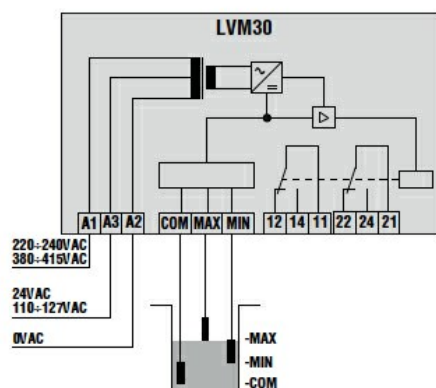
Indication	1 green LED for power on 1 red LED for relay state		
Functions			
3 detecting electrodes (MIN, MAX and COM)	Yes		
5 detecting electrodes (MIN1, MAX1, MIN2, MAX2 and COM)	No		
Sensitivity adjustment 2.5...50k Ω	Yes		
Sensitivity adjustment 2.5...100k Ω	No		
Sensitivity adjustment 2.5...200k 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	lbin	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

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Certificates

cULus  
EAC

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ETIM classification

ETIM 8.0

EC001447 - (Fill)  
level monitoring  
relay