



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

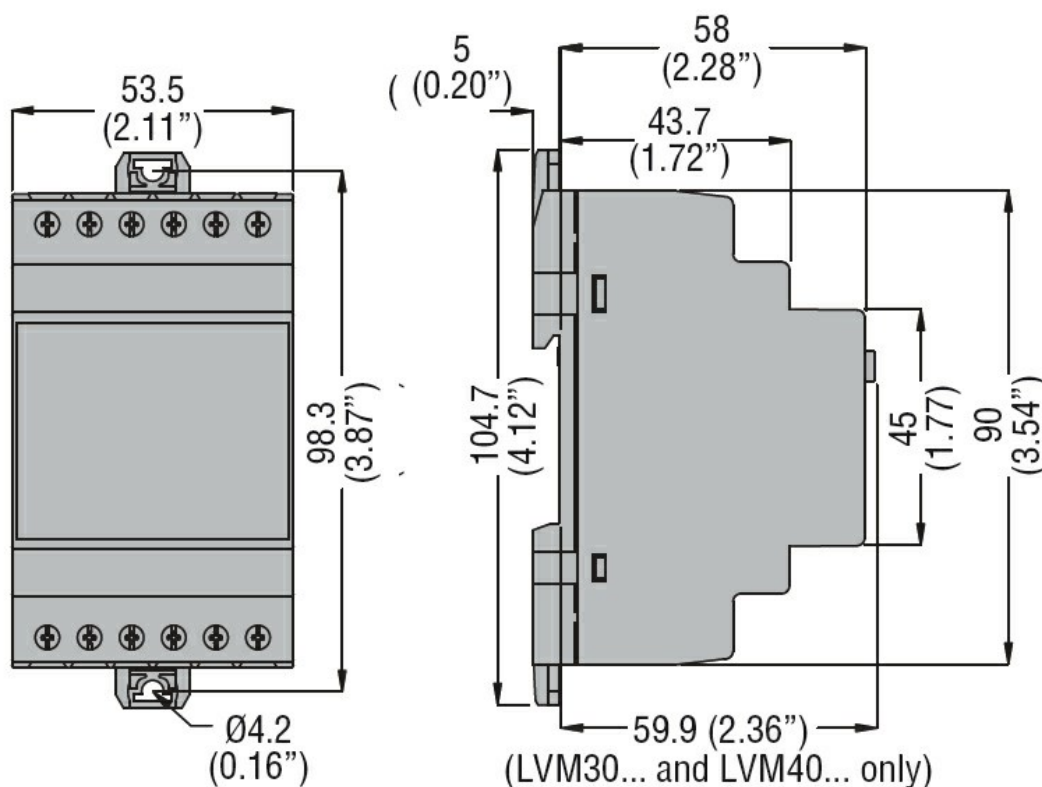
Rated operational voltage AC (IEC)	VAC	250
Maximum switching voltage	VAC	400
IEC Conventional free air thermal current Ith	A	8
UL/CSA and IEC/EN 60947-5-1 designation		B300
Electrical life (with rated load)	cycles	10 <sup>5</sup>
Mechanical life	cycles	30x10 <sup>6</sup>

#### Indications

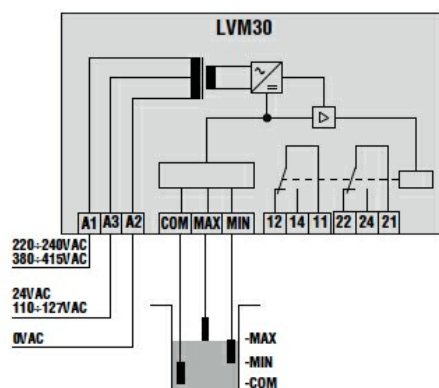
Indication	1 green LED for power on 1 red LED for relay state			
Functions				
3 detecting electrodes (MIN, MAX and COM)	Yes			
5 detecting electrodes (MIN1, MAX1, MIN2, MAX2 and COM)	No			
Sensitivity adjustment 2.5...50k Ω	Yes			
Sensitivity adjustment 2.5...100k Ω	No			
Sensitivity adjustment 2.5...200k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