



Level control
relay for
emptying
function. Single
voltage. Modular
version
LVM20
Emptying

Product designation

Product type designation

Function

Auxiliary supply

Supply voltage Type	Single voltage		
Rated auxiliary supply voltage U_s			
AC	min	VAC	24
Operating voltage range			0.85...1.1 U_s
Rated frequency		Hz	50/60
Power consumption Max		VA	3.5
Power dissipation Max		W	1.8

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	≤ 0.6
Resetting time	s	≤ 0.75

Relay outputs

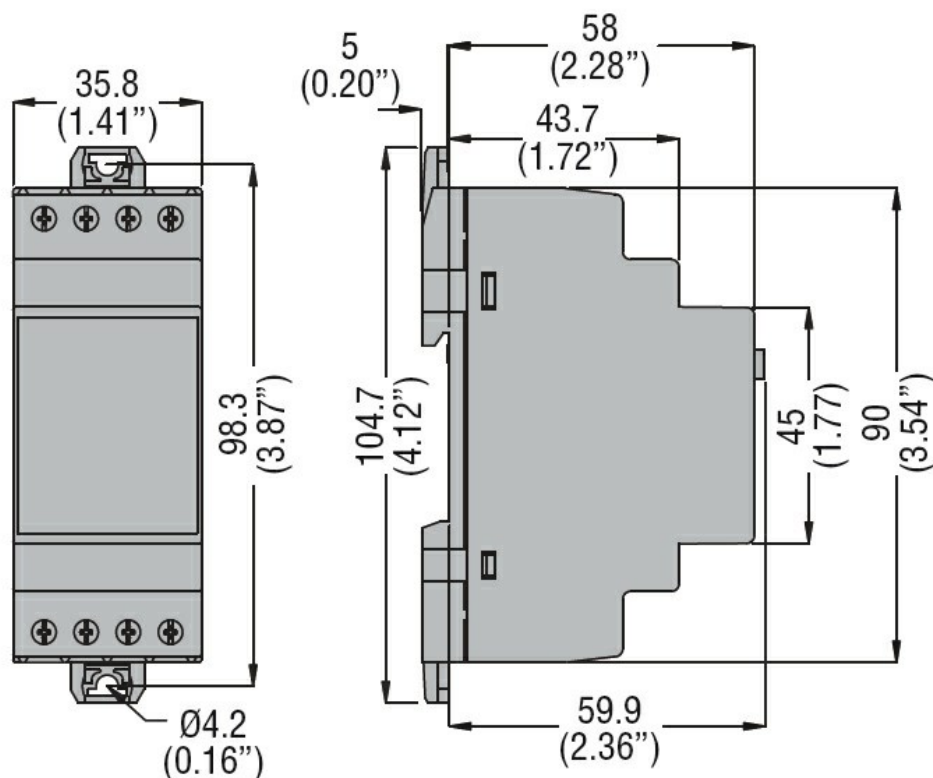
Number of relays	Nr.	1
Relay state		Normally de- energised, energises at tripping
Contact arrangement		1 changeover contact C/O- SPDT
Rated operational voltage AC (IEC)	VAC	250
Maximum switching voltage	VAC	400
IEC Conventional free air thermal current I_{th}	A	8
UL/CSA and IEC/EN 60947-5-1 designation		B300
Electrical life (with rated load)	cycles	10^5
Mechanical life	cycles	30×10^6

Indications

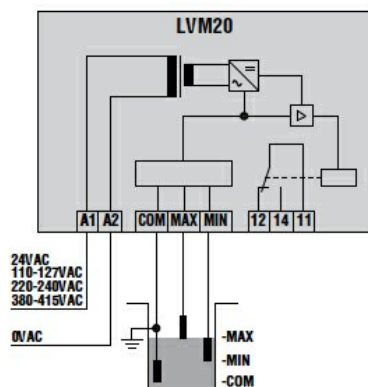
Indication	1 green LED for power on 1 red LED for relay state		
Functions			
3 detecting electrodes (MIN, MAX and COM)	Yes		
5 detecting electrodes (MIN1, MAX1, MIN2, MAX2 and COM)	No		
Sensitivity adjustment 2.5...50k Ω	Yes		
Sensitivity adjustment 2.5...100k Ω	No		
Sensitivity adjustment 2.5...200k 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	No		
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	No		
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	2		
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	35.8 x 104.7 x 64.9
Weight	g	215

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