LVM20A240

LEVEL MONITORING RELAY, MODULAR VERSION, SINGLE-VOLTAGE. AUTOMATIC RESETTING, 220...240VAC



Product designation			Level control relay for emptying function. Single voltage. Modular version
Product type designation			LVM20
Function			Emptying
Auxiliary supply			
Supply voltage Type			Single voltage
Rated auxiliary supply voltage Us AC			
	min	VAC	220
	Max	VAC	240
Operating voltage range			0.85...1.1 Us
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		kΩ	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 Ith		A	8
UL/CSA and IEC/EN 60947-5-1 designation			B300
Electrical life (with rated load)		cycles	10^5
Mechanical life		cycles	$30x10^6$

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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	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			2

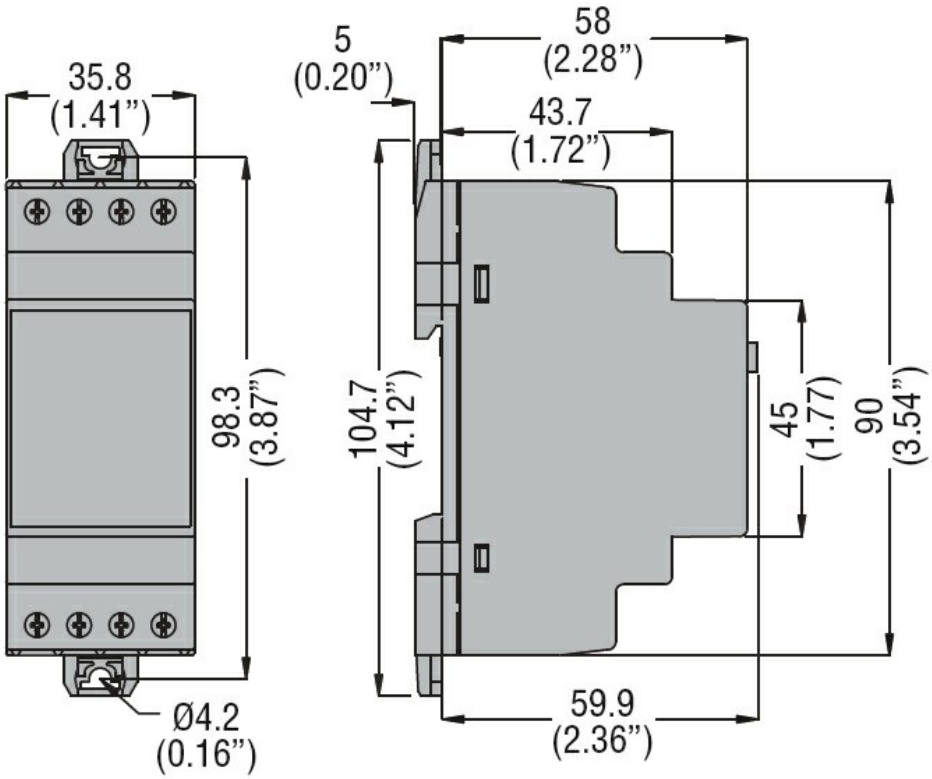
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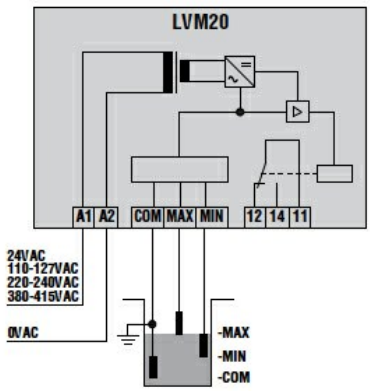
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Material		Self-extinguishing polyamide
Mounting		35mm DIN rail (IEC/EN 60715) or by screws using extractable clips
IEC degree of protection		IP40 on front / IP20 on terminals
Dimensions (W x H x D)	mm	35.8 x 104.7 x 64.9
Weight	g	215

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

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	UL508
Certificates	
	cULus
	EAC

ETIM classification

ETIM 8.0	EC001447 - (Fill) level monitoring relay

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