

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

			M N T H
Product designation			Level control relay for emptying function. Single voltage. Modular version
Product type designation			LVM20
Function			Emptying
Auxiliary supply			Emptying
Supply voltage Type			Single voltage
Rated auxiliary supply voltage Us			Omgre venage
AC			
7.0	min V	AC	220
		AC	240
Operating voltage range	TVICOX V		0.851.1 Us
Rated frequency	-	Hz	50/60
Power consumption Max		/A	3.5
Power dissipation Max		W	1.8
Output characteristics		• •	1.0
Number of connectable electrodes	1	Nr.	3
Type of electrode			Electrode and electrode holders: SN1 / SCM / CGL / PS31 / PS3S or similar
Electrode voltage			7.5 VAC
Sensitivity	ı	Ω	2.550
Serisitivity	r	(12	adjustable
Time delay			
Tripping time		S	≤0.6
Resetting time		S	≤0.75
Relay outputs			
Number of relays	1	Nr.	1
Relay state			Normally de- energised, energises at tripping
Contact arrangement			1 changeover contact C/O-SPDT
Rated operational voltage AC (IEC)	V	AC	250
Maximum switching voltage	V	AC	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)	CV	cles	10 <sup>5</sup>
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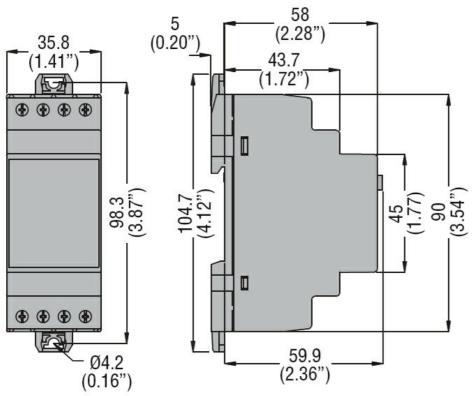
Indications			
			1 green LED for
Indication			power on 1 red
indication			LED for relay
			state
Functions			
3 detecting electrodes (MIN, MAX and COM)			Yes
5 detecting electrodes (MIN1, MAX1, MIN2, MAX2 and COM			No
Sensitivity adjustment 2.550k Ω			Yes
Sensitivity adjustment 2.5100k Ω			No
Sensitivity adjustment 2.5200k 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
9			mounting
N° of modules			2

**ENERGY AND AUTOMATION** 

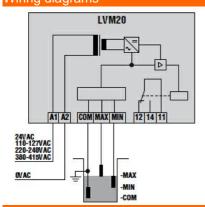
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Material		Self-extinguishing polyamide
Mounting		35mm DIN rail (IEC/EN 60715) or by screws using extractable clips
IEC degree of protection		IP40 on front / IP20 on terminals
Dimensions (W x H x D)	mm	35.8 x 104.7 x 64.9
Weight	g	215

### 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



#### LVM20A240

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

	UL508	
Certificates		
	cULus	
	EAC	
ETIM classification		
ETIM 8.0		EC001447 - (Fill) level monitoring relay