



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	24
Operating voltage range			0.851.1 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	2.550 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		А	8
UL/CSA and IEC/EN 60947-5-1 designation			B300
Electrical life (with rated load)		cycles	10⁵
Mechanical life		cycles	30x10 <sup>6</sup>
Indications		.,	

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



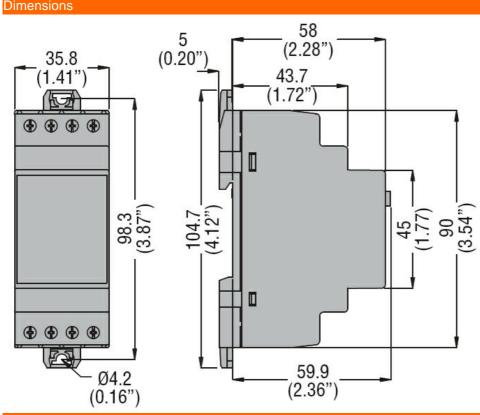
## LVM20A024 LEVEL MONITORING RELAY, MODULAR VERSION, SINGLE-VOLTAGE. AUTOMATIC RESETTING, 24VAC

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 2.550k 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	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
Material			Self-extinguishing polyamide

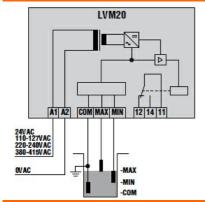
LVM20A024



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