

Product designation			Level control relay for emptying function. Single voltage. Modular version
Product type designation			LVM20
Function			Emptying function
<b>Auxiliary supply</b>			
Supply voltage Type			Single voltage
Rated auxiliary supply voltage Us AC	min Max	VAC VAC	110 127
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
<b>Output characteristics</b>			
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			kohm 2.5...50
<b>Time delay</b>			
Tripping time			s ≤0.6
Resetting time			s ≤0.75
<b>Relay outputs</b>			
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 <sub>th</sub>			A 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>
<b>Indications</b>			
Indication			1 green LED for power on 1 red LED for relay state
<b>Connections</b>			
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	mm <sup>2</sup>	0.2
Max	mm <sup>2</sup>	4

Maximum cable length

m / ft

800m max /  
sensitivity 2.5kΩ  
150m max /  
sensitivity 25kΩ  
100m max /  
sensitivity 50kΩ  
Calculated using  
600V 3-core  
0.75mm<sup>2</sup> section  
cables.

**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	
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

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IEC/EN 61000-6-2

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IEC/EN 61000-6-3

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UL508

Certificates

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cULus

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EAC

ETIM classification

ETIM 8.0

EC001447 - (Fill)  
level monitoring  
relay