

NIVEAU-SCHALTRELAIS MODULARE AUSFÜHRUNG, ENTLEERFUNK. UND AUT. RÜCKSTELLUNG 24VAC

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Product designation			Level control relay for emptying
r Toduct designation			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 /
Electrode voltage			PS31 / PS3S or similar 7.5 VAC
Liectiode voltage			2.550
Sensitivity		kΩ	adjustable
Time delay			10.0
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		Α	8
UL/CSA and IEC/EN 60947-5-1 designation			B300
Electrical life (with rated load)	C	ycles	10 ⁵
Mechanical life		ycles	30x10 ⁶
Indications	Ů	, 0.00	J J / 1 J



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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

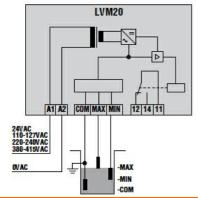
ENERGY AND AUTOMATION

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		35mm DIN rail (IEC/EN 60715)
Mounting		
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 Dimensions	g	215

35.8 (0.20") 43.7 (1.72") (1.72") (1.72") (2.28") (1.415) (2.28") (1.72") (1.72") (1.72") (1.72") (1.72") (1.72") (1.72") (1.72") (1.72")

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



LVM20A024

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cULus
EAC

ETIM classification

ETIM 8.0

EC001447 - (Fill) level monitoring relay