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

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Product designation			Level control relay multifunction. Single voltage. Modular version
Product type designation  Function			LVM40 Multifunction: emptying and alarms, filling and alarms, emptying with priority start- up change, filling
			with priority start- up change, well draining and tank filling and alarms
Auxiliary supply			0: 1 1:
Supply voltage Type			Single voltage
Rated auxiliary supply voltage Us			
AC	min	VAC	24
Operating voltage range	1111111	VAC	0.851.1 Us
Rated frequency		Hz	50/60
Power consumption Max		VA	4.5
Power dissipation Max		W	2.8
Output characteristics		VV	2.0
Number of connectable electrodes		Nr.	5
Number of connectable electrodes		INI.	Electrode and
			electrode
Time of electricals			holders: SN1 /
Type of electrode			SCM / CGL /
			PS31 / PS3S or
			similar
Electrode voltage			10 Vpp
Sensitivity		kΩ	2.5200 adjustable
Time delay			
Tripping time		S	1
Resetting time		S	1
Probe tripping delay			110s
Relay outputs			
Number of relays		Nr.	2
			Normally de-
Relay state			energised,
			energises at tripping
			anpping



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			1 changeover
			contact C/O-
Contact arrangement			SPDT + 1 contact NO-
			SPST
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)		cyclos	10 <sup>5</sup>
Mechanical life		cycles cycles	30x10 <sup>6</sup>
Indications		cycles	300 10
mulcations			1 green LED
			indicator for
			power on 2 red
Indication			LEDs for relay
			state 2 red LEDs
			for probe state
Functions			
3 detecting electrodes (MIN, MAX and COM)			No
5 detecting electrodes (MIN1, MAX1, MIN2, MAX2 and COM			Yes
Sensitivity adjustment 2.550k Ω			No
Sensitivity adjustment 2.5100k Ω			No
Sensitivity adjustment 2.5200k Ω			Yes
Adjustable sensitivity full-scale value 25-50-100-200 k Ω			Yes
Separate sensitivity adjustment for MAX probe (foam detection)			Yes
Emptying function			Yes
Filling function			Yes
Emptying function with MIN and/or MAX alarm			Yes
Filling function with MIN and/or MAX alarm			Yes
Emptying function with pump priority change			Yes
Filling function with pump priority change			Yes
Tank filling, well drawing and alarm			Yes
Filling-emptying adjustment selector			No
Programming selector for 5 different			Yes
Motor start-up priority change			No
Connections			
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			

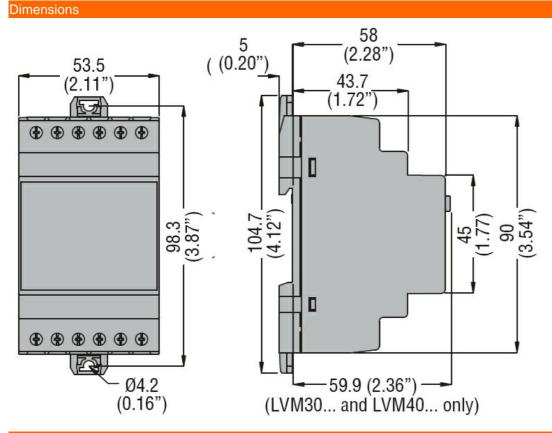
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Operating temperature			
	min	°C	-20
	max	°C	+60
Storage temperature			
	min	°C	-30
	max	°C	+80
Housing			
Execution			Modular DIN rail mounting
N° of modules			3
Material			Self-extinguishing polyamide
Mounting			35mm DIN rail (IEC/EN 60715) or by screws using extractable clips
IEC degree of protection			IP40 on front / IP20 on terminals
Dimensions (W x H x D)		mm	53.5 x 104.7 x 64.9



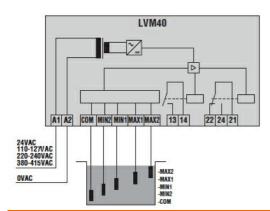
### Wiring diagrams

Weight

**ENERGY AND AUTOMATION** 

LEVEL MONITORING RELAY, MODULAR VERSION, SINGLE-VOLTAGE. MULTIFUNCTIONS.

AUTOMATIC RESETTING, 24VAC



### 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