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



Level control

Product designation  Product type designation  Function  Auxiliary supply			relay multifunction. Single voltage. Modular version LVM40 Multifunction: emptying function and alarms filling function and alarms emptying function with priority start-up change control filling function with priority start- up change control well draining and tank filling and alarms
Supply voltage Type			Single voltage
Rated auxiliary supply voltage Us			
AC			
	min	VAC	220
	Max	VAC	240
Operating voltage range			0.851.1 Us
Rated frequency		Hz	50/60
Power consumption Max		VA	4.5
Power dissipation Max		W	2.8
Output characteristics			
Number of connectable electrodes		N°	5
Type of electrode			Electrode and electrode holders: SN1 / SCM / CGL / PS31 / PS3S or similar
Electrode voltage			10 Vpp
Sensitivity		kohm	2.5200
Time delay			
Tripping time		S	1
Resetting time		S	1
Probe tripping delay			110s
Relay outputs			
Number of relays		N°	2

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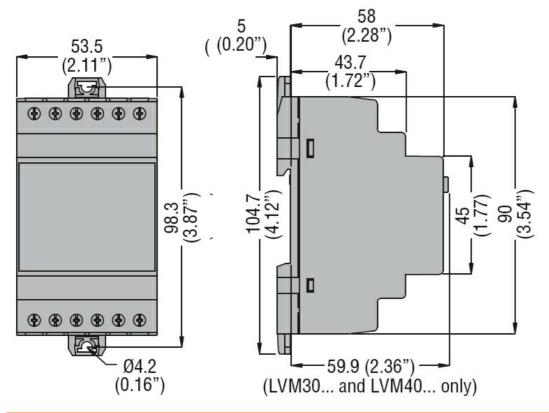
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Relay state         energises at engises at ripiping           Contact arrangement         1 changeover contact C/C spDT + 1 changeover contac	·			<u> </u>
Reliable   Reliable				Normally de-
Contact arrangement	Relay state			
Contact arrangement				_
Contact arrangement         Contact C/C-SPDT + 1 contact NO-SPST T contact NO-SPST T contact NO-SPST T contact NO-SPST NAME NOT SPST NAME NOT SPST NAME NOT SPST NAME NAME NAME NAME NAME NAME NAME NAME				
Contact arrangement         SPDT + 1 contact No spST				
Rated operational voltage AC (IEC)	Contact arrangement			
Rated operational voltage AC (IEC)	- Carrian and Garren			
Maximum switching voltage				SPST
EC Conventional free air thermal current Ith UL/CSA and IEC/EN 60947-5-1 designation	Rated operational voltage AC (IEC)		VAC	250
UL/CSA and IEC/EN 60947-5-1 designation   Electrical life (with rated load)   cycles   105	Maximum switching voltage		VAC	400
Electrical life (with rated load)	IEC Conventional free air thermal current Ith		Α	8
Mechanical life	UL/CSA and IEC/EN 60947-5-1 designation			B300
Indications         In green LED indicator for power on 2 red LEDs for relay state 2 red LEDs for probe state           Connections           Tightening torque for terminals           Max         Nm         0.8           AWG/Kcmil           Max         Nm         0.8         and colspan="4">Nm         0.2         and colspan="4">Nm         0.2         2.         0.2         And colspan="4">Nm         0.2         2.         0.2         0.2         0.2         0.2         0.2         0.2         0.2	Electrical life (with rated load)		cycles	105
Indication	Mechanical life		cycles	30x106
Indication   Ind	Indications			
Indication				
LEDs for relay state 2 red LEDs for probe state 3 red LEDs for probe state 3 red LEDs for probe state 4 red LEDs for probe state 2 red LEDs for probe state 4 red LEDs for probe stat				
Connections	Indication			•
Tightening torque for terminals				
Connections           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         6           Operating frequency withstand voltage         kV 4         4           Double insulation Supply / relay / electrode         VAC ≤250         ≤250           Amblent conditions           Temperature           Operating temperature         min °C -20 max °C +60           Storage temperature         min °C -30 max °C +80           Housing         Execution         Modular           Execution         Modular         Modular           Material         Self-extinguishing				
Tightening torque for terminals	Connections			ioi probe state
Max   Nm   0.8 max   lbin   7				
max Ibin 7           Conductor cross section           AWG/Kcmil           min AWG 24           Max AWG 12           IEC           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           Variable         Storage temperature           For age temperature         min °C -20           Modular         N° of modules         Modular           Material         Self-extinguishing	rightening torque for terminals	may	Nm	0.8
Conductor cross section           AWG/Kcmil           min Max 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         4           Double insulation Supply / relay / electrode         VAC ≤250         ≤250           Ambient conditions           Temperature           min °C -20 max °C +60         C -20 max °C +60           Storage temperature           min °C -30 max °C +80           Housing           Execution         Modular           N° of modules         3           Matarial         Self-extinguishing				
AWG/Kcmil	Conductor cross section	max	10111	·
Max				
Nax	AWG/ICIIII	min	AWG	24
IEC  min mm² 0.2 Max mm² 4  Insulations  Rated insulation voltage Ui  Rated impulse withstand voltage Uimp  V 415  Rated impulse withstand voltage Uimp  kV 6 Operating frequency withstand voltage  VAC ≤250  Ambient conditions  Temperature  Operating temperature  Operating temperature  min °C -20 max °C +60  Storage temperature  min °C -30 max °C +80  Housing  Execution  N° of modules  Modular  N° of modules  Self-extinguishing				
min Max         mm² Max         0.2 mm² d           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           min         °C         -20 max         °C         -460           Storage temperature           min         °C         -30 max         °C         +80           Housing           Execution         Modular         Modular           N° of modules         3         Self-extinguishing	IEC		7	. –
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           Temperature         min °C -20 max °C +60           Storage temperature         min °C -30 max °C +80           Housing         Housing           Execution         Modular           N° of modules         3           Material         Self-extinguishing	.20	min	mm²	0.2
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         min °C       -20         max °C       +60         Storage temperature         min °C       -30         max °C       +80         Housing         Execution       Modular         N° of modules       3         Material       Self-extinguishing				
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           Min °C -20 max °C +60           Storage temperature           min °C -30 max °C +80           Housing           Execution         Modular           N° of modules         3           Material         Self-extinguishing	Insulations			
Rated impulse withstand voltage Uimp Operating frequency withstand voltage  Double insulation Supply / relay / electrode  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  Material			V	415
Operating frequency withstand voltage kV 4   Double insulation Supply / relay / electrode VAC ≤250   Ambient conditions   Temperature min °C -20 max °C +60   Storage temperature min °C -30 max °C +80   Housing Execution Modular   N° of modules 3   Material Self-extinguishing			kV	
Double insulation Supply / relay / electrode  Ambient conditions  Temperature  Operating temperature  min °C -20 max °C +60  Storage temperature  min °C -30 max °C +80  Housing  Execution  N° of modules  Material				
Ambient conditions				
Operating temperature				
Operating temperature           min         °C         -20           max         °C         +60           Storage temperature         min         °C         -30           max         °C         +80           Housing         Execution         Modular           N° of modules         3           Material         Self-extinguishing				
min °C -20   max °C +60     Storage temperature				
Storage temperature  min °C -30 max °C +80  Housing  Execution  N° of modules  Material  Self-extinguishing		min	°C	-20
min max         °C max         -30 max           Housing         Execution         Modular           N° of modules         3           Material         Self-extinguishing		max	°C	+60
min max         °C max         -30 max           Housing         Execution         Modular           N° of modules         3           Material         Self-extinguishing	Storage temperature			
Housing  Execution Modular  N° of modules 3  Material Self-extinguishing	•	min	°C	-30
Execution Modular  N° of modules 3  Material Self-extinguishing		max	°C	+80
N° of modules 3  Material Self-extinguishing	Housing			
Material Self-extinguishing	Execution			Modular
	N° of modules			3
polyamide	Material			Self-extinguishing
	IVIALGIIAI			polyamide

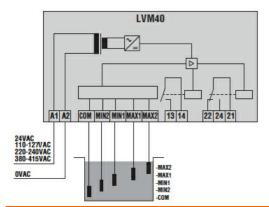
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Mounting		35mm DIN rail (IEC/EN 60715) or by screws using extractable clips
IEC degree of protection		IP40 on front / IP20 on terminals
Dimensions (W x H x D)	mm	53.5 x 104.7 x 64.9
Weight	g	278
Dimensions		



### 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** 





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AUTOMATIC RESETTING, 220...240VAC

Certificates			
	cULus		
	EAC		