

Level monitoring relays, 110 - 130 V AC/220 - 240 V AC, 50/60 Hz, 0.1 - 1000 kΩ



Part no. EMR6-N1000-N-1
184756
EL Number 4101952
(Norway)

General specifications		
Product name		Eaton Moeller® series EMR6 Liquid level monitoring relay
Part no.		EMR6-N1000-N-1
EAN		4015081787920
Product Length/Depth		103.7 millimetre
Product height		85.6 millimetre
Product width		22.5 millimetre
Product weight		0.154 kilogram
Certifications		CSA IEC/EN 60255-6 EN 61557 EAC GL RCM DNV RMRS UL
Product Tradename		EMR6
Product Type		Liquid level monitoring relay
Product Sub Type		None
Features & Functions		
Electric connection type		Screw connection
Functions		Response value sensitivity adjustable
Monitoring function		Mixture ratio of conductive liquids Fill level of conductive liquids
General information		
Degree of protection		Terminals: IP20 Enclosure: IP50
Lifespan, mechanical		10,000,000 Operations
Mounting position		As required
Overvoltage category		III
Pollution degree		3
Product category		EMR Measuring and monitoring relays
Rated impulse withstand voltage (Uimp)		4000 V AC
Shock resistance		Class 2
LED indicator		Status indication of Min occupied: Yellow, flashing light Status indication of active release delay: Green, flashing light Status indication of Supply voltage: Green LED Status indication of Output relay excited: Yellow, solid light (R) Status indication of Min and Max occupied: Yellow, solid light Status indication of energized output relay: Yellow LED Status indication of Supply voltage: Green, solid light
Type		Level monitoring relay
Voltage type		AC
Climatic environmental conditions		
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		60 °C
Ambient storage temperature - min		40 °C
Ambient storage temperature - max		85 °C
Climatic proofing		Damp heat, cyclic, to IEC 60068-2-30
Electro magnetic compatibility		
Air discharge		Air/contact discharge, according to IEC/EN 61000-4-2, level 3
Burst impulse		According to IEC/EN 61000-4-4, level 3

Electromagnetic compatibility		According to IEC/EN 60947-6-2
Immunity to line-conducted interference		Level 3 (according to IEC/EN 61000-4-6)
Immunity to radiation		Level 3 (according to IEC/EN 61000-4-3)
Surge rating		According to IEC/EN 61000-4-5 Level 4
Terminal capacities		
Connection type		Snap fixing, top-hat rail IEC/EN 60715
Terminal capacity		1 x (0.5-2.5) mm ² , (1 x (18-14) AWG), solid 2 x (0.5-1.5) mm ² , (2 x (18-16) AWG), flexible with ferrule
Screwdriver size		5.5 x 0.8 mm, Terminal screw
Tightening torque		Min. 0.5 Nm, Screw terminals 0.8 Nm, Screw terminals
Timing cycle		
Adjustment range		0.1 - 1000 kΩ, Sensitivity
Power supply		
Duty factor		100 %, Power supply
Power consumption		2.6 VA
Rated control supply voltage (Us) at AC, 50 Hz - min		110 V
Rated control supply voltage (Us) at AC, 50 Hz - max		240 V
Rated control supply voltage (Us) at AC, 60 Hz - min		110 V
Rated control supply voltage (Us) at AC, 60 Hz - max		240 V
Rated control supply voltage (Us) at DC - min		0 V
Rated control supply voltage (Us) at DC - max		0 V
Rated frequency - min		50 Hz
Rated frequency - max		60 Hz
Supply voltage		220 - 240 V AC, 50/60 Hz 110 - 130 V AC, 50/60 Hz
Voltage tolerance		0.85 x Uc 1.1 x Uc
Measuring circuits		
Connection		Minimum level, MIN, Sensor inputs, Measuring circuits Earth reference sensor, C, Sensor inputs, Measuring circuits Maximum level, MAX, Sensor inputs, Measuring circuits
Sensor voltage		6 V AC
Relay output contacts		
Number of contacts (change-over contacts)		1
Number of contacts (normally closed contacts)		0
Number of contacts (normally open contacts)		0
Lifespan, electrical		100,000 Operation (at 230 V, AC-12, 4 A)
Rated operational current (Ie)		5 A at AC-12, 230 V 3 A at AC-15, 230 V 2 A at DC-12, 24 V
Rated operational voltage (Ue) at AC - max		300 V
Short-circuit protection rating		Max. 10 A Fast/gL, Fuse, Relay output contacts

Technical data ETIM 8.0

Relays (EG000019) / (Fill) level monitoring relay (EC001447)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Level monitoring relay (ec@ss10.0.1-27-37-18-13 [AKF107014])

Type of electric connection		Screw connection
Rated control supply voltage Us at AC 50HZ	V	110 - 240
Rated control supply voltage Us at AC 60HZ	V	110 - 240
Rated control supply voltage Us at DC	V	0 - 0
Voltage type for actuating		AC
With detachable clamps		No
Number of inputs for electrodes		3
Min. adjustable operate delay time	s	0
Max. permitted operate delay time	s	0
Min. adjustable off-delay time	s	0

Max. permitted off-delay time	s	0
Response value sensitivity adjustable		Yes
Number of contacts as normally closed contact		0
Number of contacts as normally open contact		0
Number of contacts as change-over contact		1
Physical measurement principle		Conductive
Cascadable		No
Width	mm	22.5
Height	mm	85.6
Depth	mm	103.7