Specifications





Harmony, Modular liquid level control relay, 8 A, 2 CO, 380...415 V AC/DC

RM22LA32MT

() Discontinued on: 26 Mar 2021

(!) Discontinued

Main

Range of product	Harmony Relay	
Relay type	Level control relay	
Product or component type	Modular measurement and control relays	
Relay name	RM22L	
Relay monitored parameters	Detection by resistive probes	
time delay	Adjustable 0.130 s, +/- 10 % of the full scale value on crossing the threshold Tt	
Switching capacity in VA	2000 VA	
Minimum switching current	10 mA at 5 V DC	
Maximum switching current	8 A AC	
Utilisation category	AC-15 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1 AC-1 conforming to IEC 60947-4-1 DC-1 conforming to IEC 60947-4-1	

Complementary

• •			
Maximum switching voltage	250 V AC		
Supply voltage limits	323456.5 V AC		
Output contacts	2 C/O		
Nominal output current	8 A		
delay at power up	2.5 s 0.6 s		
Maximum electrode voltage	12 V AC		
Maximum electrode current	1 mA		
Repeat accuracy	+/- 2 % for time delay		
Measurement error	< 1 % over the whole range with voltage variation 0.05 %/°C with temperature variation		
Maximum cable distance between devices	1000 m between probe and delay		
Sensitivity scale	0.255 kOhm LS (Low Sensitivity) 5100 kOhm St (Standard Sensitivity) 501000 kOhm HS (High Sensitivity)		
Sensitivity adjustment	5100 %		
Maximum supply current for sensors	1 mA		

Cable capacitance	1 nF at HS (High Sensitivity) for probe cable		
	2.2 nF at St (Standard Sensitivity) for probe cable		
	4.7 nF at LS (Low Sensitivity) for probe cable		
Overvoltage category	III conforming to IEC 60664-1		
Insulation	Between supply and measurement		
Connections - terminals	Screw terminals, 2 x 0.52 x 2.5 mm ² (AWG 20AWG 14) solid without cable end Screw terminals, 2 x 0.22 x 1.5 mm ² (AWG 24AWG 16) flexible with cable end Screw terminals, 1 x 0.51 x 3.3 mm ² (AWG 20AWG 12) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm ² (AWG 24AWG 14) flexible with cable end		
Tightening torque	0.61 N.m conforming to IEC 60947-1		
Housing material	Self-extinguishing plastic		
Mounting support	35 mm DIN rail conforming to EN/IEC 60715		
mounting position	Any position		
Electrical durability	100000 cycles		
Mechanical durability	1000000 cycles		
Contacts material	Cadmium free		
Safety reliability data	MTTFd = 182.6 years		
	B10d = 170000		
Width	22.5 mm		
Net weight	0.11 kg		

Environment

Immunity to microbreaks	100 ms DC 90 ms AC
Electromagnetic compatibility	Immunity for residential, commercial and light-industrial environments conforming to
	EN/IEC 61000-6-1
	Immunity for industrial environments conforming to EN/IEC 61000-6-2
	Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3
	Emission standard for industrial environments conforming to EN/IEC 61000-6-4
	Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2
	Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2
	Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m level 3 conforming to IEC 61000-4-3
	Electrical fast transient/burst immunity test - test level: 4 kV level 4 (direct) conforming to IEC 61000-4-4
	Electrical fast transient/burst immunity test - test level: 2 kV level 4 (capacitive coupling) conforming to IEC 61000-4-4
	Surge immunity test - test level: 4 kV level 4 (common mode) conforming to IEC 61000-4-5
	Surge immunity test - test level: 2 kV level 4 (differential mode) conforming to IEC 61000-4-5
	Conducted and radiated emissions class B group 1 conforming to CISPR 11
	Conducted and radiated emissions class B conforming to CISPR 22
Standards	EN/IEC 60255-1
product certifications	GL
	UL
	CCC
	EAC
	RCM
	CE
	CSA
Ambient air temperature for storage	-4070 °C
Relative humidity	9397 % at 2555 °C conforming to IEC 60068-2-30

Vibration resistance	0.075 mm (f= 1058.1 Hz) not in operation conforming to IEC 60068-2-6 1 gn (f= 1058.1 Hz) not in operation conforming to IEC 60068-2-6 0.035 mm (f= 58.1150 Hz) in operation conforming to IEC 60068-2-6 0.5 gn (f= 58.1150 Hz) in operation conforming to IEC 60068-2-6	
Shock resistance	15 gn (duration = 11 ms) for not in operation conforming to IEC 60068-2-27 5 gn (duration = 11 ms) for in operation conforming to IEC 60068-2-27	
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP50 (front panel) conforming to IEC 60529	
Pollution degree	3 conforming to IEC 60664-1	
Dielectric test voltage	2.5 kV, 1 min AC 50 Hz conforming to IEC 60255-27	
Packing Units		

Unit Type of Package 1	PCE		

Number of Units in Package 1 1

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Mercury Free

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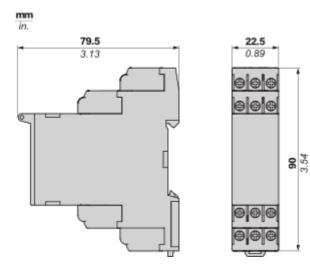
Rohs Exemption Information

Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Dimensions Drawings

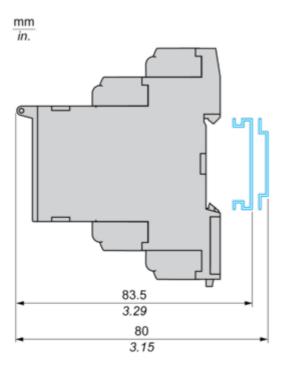
Dimensions



Mounting and Clearance

Mounting and Clearance

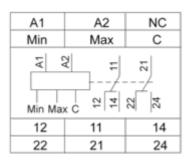
Rail Mounting



Connections and Schema

Level Control Relay

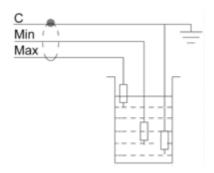
Wiring Diagram



A1,A2 : Supply voltage Max : High level Min : Low level C : References or Tank earth electrode 11-14,12 : 1st C/O contact of output relay 21-24,22 : 2nd C/O contact of output relay

Control by Electrodes

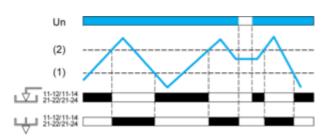
Wiring Diagram



A1,A2 : Supply voltage Max : High level Min : Low level C : References or Tank earth electrode 11-14,12 : 1st C/O contact of output relay **Technical Description**

Function Diagrams

Control of Two Levels Fill/Empty function

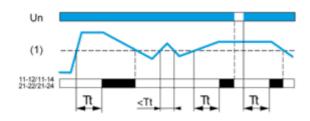


Legend

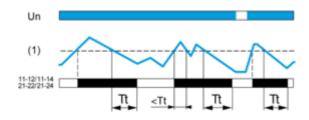
Un Supply voltage (1) Min. level (2) Max. level 11-12/11-14, 21-22/21-24 Output relay connections Relay status: black color = energized.

Control of One Level

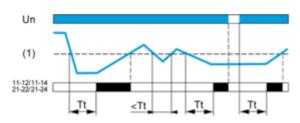
Empty function T on



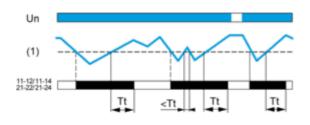
Empty function T off



Fill function T on



Fill function T off



Legend

Tt Time delay after crossing of threshold
Un Supply voltage
(1) Level threshold
11-12/11-14, 21-22/21-24 Output relay connections
Relay status: black color = energized.

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Technical Illustration

Dimensions

