

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

RM22LA32MT

! Discontinued on: Mar 26, 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 mm² (AWG 20AWG 14) solid without cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 1 x 0.51 x 3.3 mm² (AWG 20AWG 12) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm² (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	10000000 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
	0.3 gir (1= 30.1 130 112) iii operation comorning to 120 00000-2-0
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
	3 gn (duration = 11 ms) for in operation comorning to 120 00000-2-27
Ip Degree Of Protection	IP20 (terminals) conforming to IEC 60529
	IP40 (housing) conforming to IEC 60529
	IP50 (front panel) conforming to IEC 60529
	ii 30 (iiont paner) comorning to iEC 00329
Pollution Degree	3 conforming to IEC 60664-1
	5 551151111119 to 125 55551 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

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.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

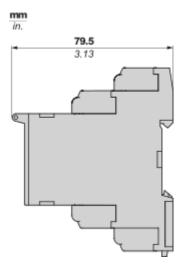
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

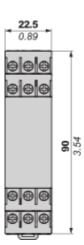
Product data sheet

RM22LA32MT

Dimensions Drawings

Dimensions

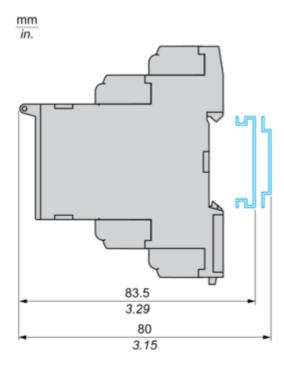




Mounting and Clearance

Mounting and Clearance

Rail Mounting



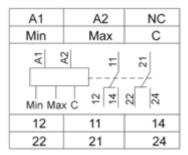
Product data sheet

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Connections and Schema

Level Control Relay

Wiring Diagram



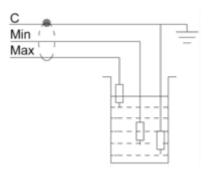
A1,A2 : Supply voltage
Max : High level
Min : Low level

Apr 26, 2024

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

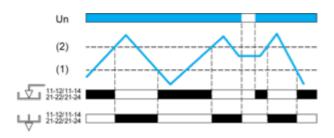
C: References or Tank earth electrode 11-14,12: 1st C/O contact of output relay

Technical Description

Function Diagrams

Control of Two Levels

Fill/Empty function



Legend

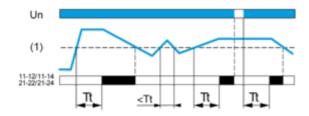
Un Supply voltage (1) Min. level

(2) Max. level 11-12/11-14, 21-22/21-24 Output relay connections

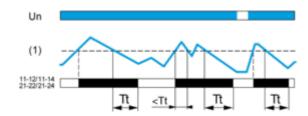
Relay status: black color = energized.

Control of One Level

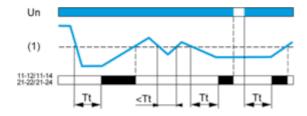
Empty function T on



Empty function T off



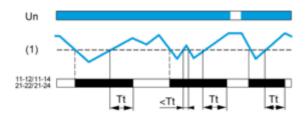
Fill function T on



Fill function T off

Product data sheet

RM22LA32MT



Legend

10

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.