

Modular liquid level control relay, 8 A, 2 CO, 24...240 V AC/DC

Local distributor code:

403002689 RM22LA32MR

EAN Code: 3606480792342

Main

Range of product	Harmony Control Relays	
Relay type	Level control relay	
Product or component type	Level control relay	
Relay name	RM22L	
Relay monitored parameters	Detection by resistive probes	
time delay	Adjustable 0.130 s, +/- 10 % of the full scale value Tt- time delay upon fault	
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	
Contacts type and composition	2 C/O	

Complementary

Maximum switching voltage	250 V AC
[Un] rated nominal voltage	24240 V AC/DC 50/60 Hz, non self-powered
Supply voltage limits	20.4264 V AC/DC
power consumption	1.5 W DC
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	100 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	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, $2 \times 0.52 \times 2.5 \text{ mm}^2$ (AWG 20AWG 14) solid without cable end Screw terminals, $2 \times 0.22 \times 1.5 \text{ mm}^2$ (AWG 24AWG 16) flexible with cable end Screw terminals, $1 \times 0.51 \times 3.3 \text{ mm}^2$ (AWG 20AWG 12) solid without cable end Screw terminals, $1 \times 0.21 \times 2.5 \text{ mm}^2$ (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 IEC 60715	
Mounting position	Any position	
Electrical durability	100000 cycles	
Mechanical durability	10000000 cycles	
Contacts material	Cadmium free	
Measurement range	0.251000 kOhm	
Safety reliability data	MTTFd = 182.6 years B10d = 170000	
Width	22.5 mm	
Control type	With test button	
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 IEC 61000-6-1 Immunity for industrial environments conforming to IEC 61000-6-2 Emission standard for residential, commercial and light-industrial environments conforming to IEC 61000-6-3 Emission standard for industrial environments conforming to 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	IEC 60255-1	
Product certifications	UL	

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
Package 1 Height	2.6 cm
Package 1 Width	8.2 cm
Package 1 Length	9.5 cm
Package 1 Weight	122.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	5.492 kg
Unit Type of Package 3	P06
Number of Units in Package 3	640
Package 3 Height	60.0 cm
Package 3 Width	80.0 cm
Package 3 Length	60.0 cm
Package 3 Weight	95.14 kg

Contractual warranty

Warranty 18 months

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

How this information helps you >

Carbon footprint (kg CO2 eq, Total Life cycle)	37
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	3c095d35-159c-493c-8604-58788d456aa9
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration

Use Again

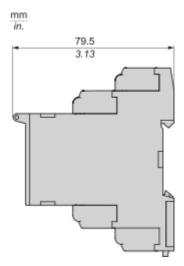
○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

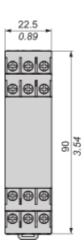
Product datasheet

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Dimensions Drawings

Dimensions



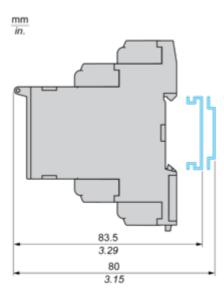


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Mounting and Clearance

Mounting and Clearance

Rail Mounting



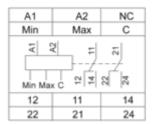
Product datasheet

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Connections and Schema

Level Control Relay

Wiring Diagram

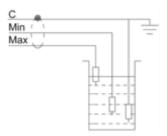


A1,A2 : Supply voltage
Max : High level
Min : Low level

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

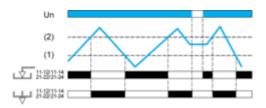
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Technical Description

Function Diagrams

Control of Two Levels

Fill/Empty function



Legend

Un Supply voltage

(1) Min. level

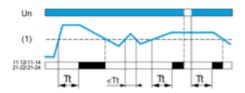
(2) Max. level

11-12/11-14, 21-22/21-24 Output relay connections

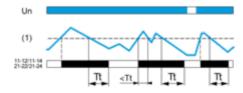
Relay status: black color = energized.

Control of One Level

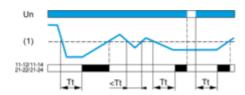
Empty function T on



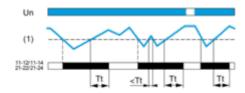
Empty function T off



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

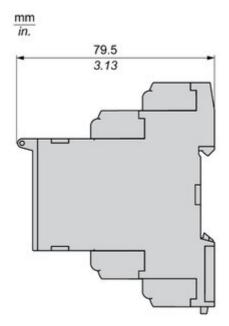
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Relay status: black color = energized.

Technical Illustration

Dimensions



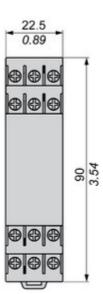


Image of product / Alternate images

Alternative











