

Product datasheet

Specifications



Harmony. Modular liquid level control relay. 8 A. 1 CO. 24...240 V AC/DC

RM22LG11MR

Price: 1,982.69 ZAR

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 | Without |
| 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 | 24...240 V AC/DC 50/60 Hz, non self-powered |
| Supply Voltage Limits | 20.4...264 V AC/DC |
| Power Consumption | 1.5 W DC |
| Output Contacts | 2 C/O |
| Nominal Output Current | 8 A |
| Delay At Power Up | 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 | 5...100 kOhm St (Standard Sensitivity) |
| Sensitivity Adjustment | 5...100 % |
| Maximum Supply Current For Sensors | 1 mA |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

| | |
|--------------------------------|--|
| 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 0.5...2 x 2.5 mm ² (AWG 20...AWG 14) solid without cable end Screw terminals, 2 x 0.2...2 x 1.5 mm ² (AWG 24...AWG 16) flexible with cable end Screw terminals, 1 x 0.5...1 x 3.3 mm ² (AWG 20...AWG 12) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm ² (AWG 24...AWG 14) flexible with cable end |
| Tightening Torque | 0.6...1 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 | 5...100 kOhm |
| Safety Reliability Data | B10d = 120000 MTTFd = 125.5 years |
| Width | 22.5 mm |
| Control Type | With test button |
| Net Weight | 0.1 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 | GL RCM CCC CSA UL EAC CE |
| Ambient Air Temperature For Storage | -40...70 °C |

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|--------------------------------|--|
| Relative Humidity | 93...97 % at 25...55 °C conforming to IEC 60068-2-30 |
| Vibration Resistance | 0.075 mm (f= 10...58.1 Hz) not in operation conforming to IEC 60068-2-6 1 gn (f= 10...58.1 Hz) not in operation conforming to IEC 60068-2-6 0.035 mm (f= 58.1...150 Hz) in operation conforming to IEC 60068-2-6 0.5 gn (f= 58.1...150 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 | 109.0 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 | 4.999 kg |
| Unit Type Of Package 3 | P06 |
| Number Of Units In Package 3 | 640 |
| Package 3 Height | 75.0 cm |
| Package 3 Width | 60.0 cm |
| Package 3 Length | 80.0 cm |
| Package 3 Weight | 88.484 kg |

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class 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](#)

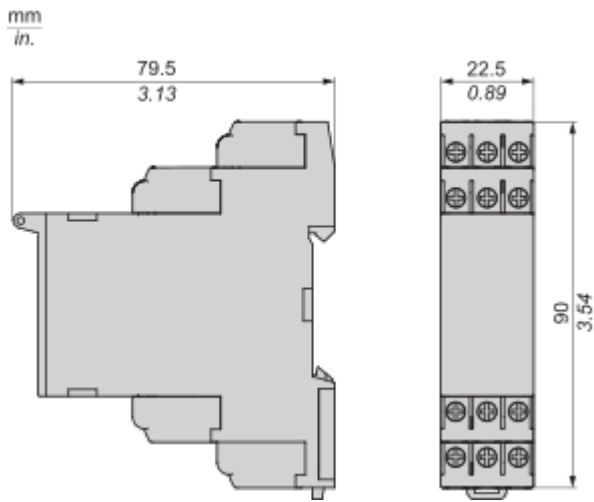
Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)

Dimensions Drawings

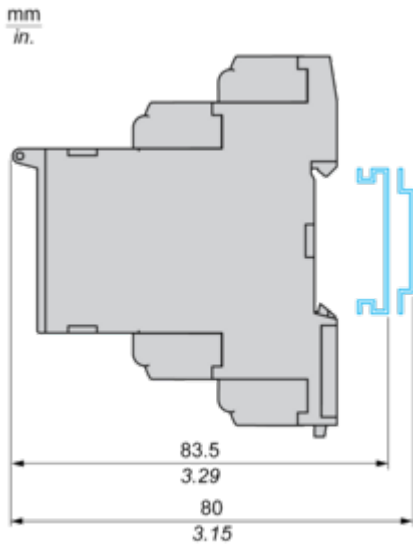
Dimensions



Mounting and Clearance

Mounting and Clearance

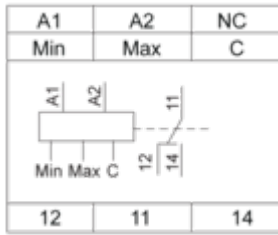
Rail Mounting



Connections and Schema

Level Control Relay

Wiring Diagram



A1,A2 : Supply voltage

Max : High level

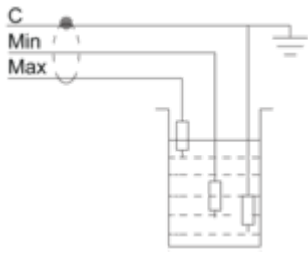
Min : Low level

C : References or Tank earth electrode

11-14,12 : 1st C/O contact of output relay

Control by Electrodes

Wiring Diagram



A1,A2 : Supply voltage

Max : High level

Min : Low level

C : References or Tank earth electrode

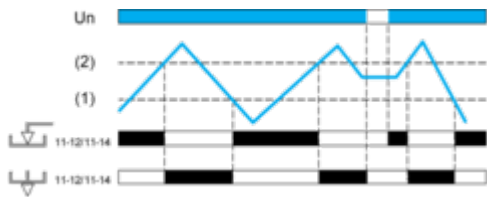
11-14,12 : 1st C/O contact of output relay

Technical Description

Function Diagrams

Control of Two Levels

Fill/Empty function



Legend

U_n Nominal supply voltage

(1) Min. level

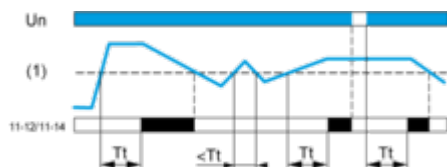
(2) Max. level

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

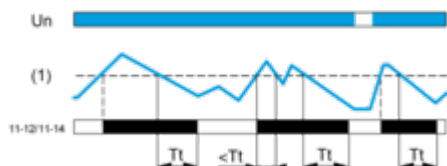
Relay status: black color = energized.

Control of One Level

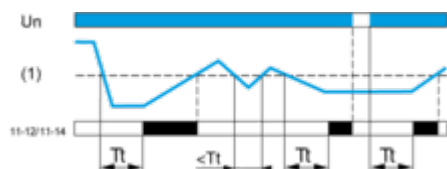
Empty function T on



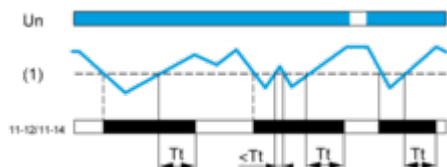
Empty function T off



Fill function T on



Fill function T off



Legend

T_t Time delay after crossing of threshold

U_n Supply voltage

(1) Level threshold

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

Relay status: black color = energized.