Specifications





# Level control relay RM22-L - 24..240 V AC/DC - 1 C/O

RM22LG11MR

#### 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	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	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	5100 kOhm St (Standard Sensitivity)
Sensitivity adjustment	5100 %
Maximum supply current for sensors	1 mA

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

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 IEC 60715
Mounting position	Any position
Electrical durability	100000 cycles
Mechanical durability	10000000 cycles
Contacts material	Cadmium free
Measurement range	5100 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

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 leve 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	-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	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\*

**Green Premium**<sup>TM</sup> **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-CO<sub>2</sub> 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

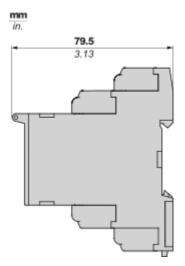
#### **Certifications & Standards**

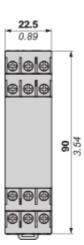
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

### RM22LG11MR

#### **Dimensions Drawings**

#### **Dimensions**



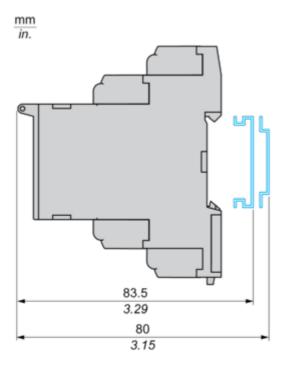


#### RM22LG11MR

Mounting and Clearance

#### Mounting and Clearance

#### **Rail Mounting**

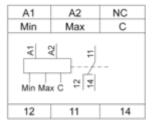


#### RM22LG11MR

#### Connections and Schema

#### **Level Control Relay**

#### Wiring Diagram



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

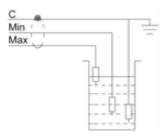
12 Aug 2024

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

#### RM22LG11MR

#### **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

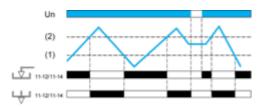
#### RM22LG11MR

#### **Technical Description**

#### **Function Diagrams**

#### **Control of Two Levels**

Fill/Empty function



#### Legend

Un Nominal supply voltage

(1) Min. level

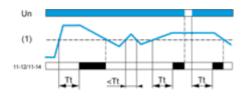
(2) Max. level

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

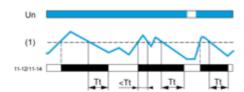
Relay status: black color = energized.

#### Control of One Level

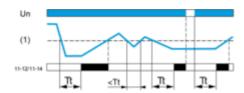
Empty function T on



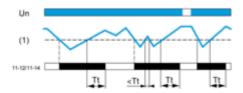
#### Empty function T off



#### Fill function T on



#### Fill function T off



#### Legend

Tt Time delay after crossing of threshold

Un Supply voltage

(1) Level threshold

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

#### RM22LG11MR

Relay status: black color = energized.

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