



level control relay, Harmony Control Relays, 8A, 1CO, 380…415V AC DC

RM22LG11MT

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	1 C/O

Complementary

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Maximum switching voltage	250 V AC
[Un] rated nominal voltage	380415 V AC/DC 50/60 Hz, non self-powered
Supply voltage limits	323456.5 V AC
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
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

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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	MTTFd = 125.5 years B10d = 120000
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	CSA
	GL
	RCM
	UL
	EAC
	CE
	CCC
Ambient air temperature for storage	-4070 °C
Relative humidity	9397 % at 2555 °C conforming to IEC 60068-2-30
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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	107.0 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	4.711 kg
Unit Type of Package 3	P06
Number of Units in Package 3	640
Package 3 Height	80.0 cm
Package 3 Width	80.0 cm
Package 3 Length	60.0 cm
Package 3 Weight	84.26 kg

Sustainability Green 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.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

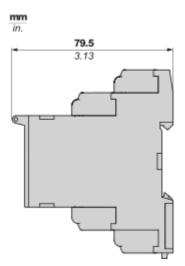
Certifications & Standards

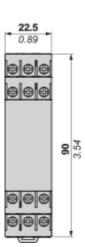
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish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

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Dimensions Drawings

Dimensions



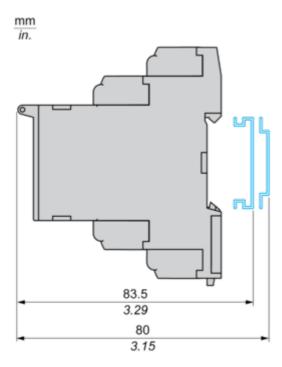


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Mounting and Clearance

Mounting and Clearance

Rail Mounting

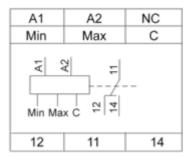


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Connections and Schema

Level Control Relay

Wiring Diagram

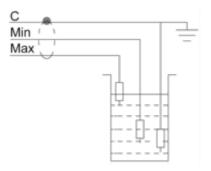


A1,A2 : Supply voltage
Max : High level
Min : Low level

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

Control by Electrodes

Wiring Diagram



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

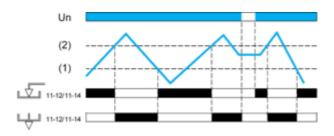
C: References or Tank earth electrode 11-14,12: 1st C/O contact of output relay

Technical Description

Function Diagrams

Control of Two Levels

Fill/Empty function



Legend

Un Nominal supply voltage

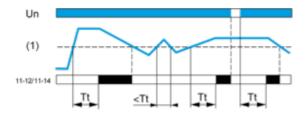
(1) Min. level(2) Max. level

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

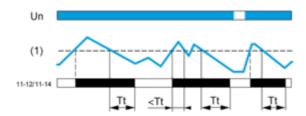
Relay status: black color = energized.

Control of One Level

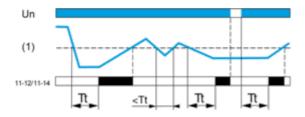
Empty function T on



Empty function T off

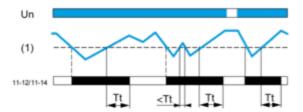


Fill function T on



Fill function T off

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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.