## Product data sheet Characteristics

## RM22LA32MR Level control relay RM22-L - 24..240 V AC/DC - 2 C/O





#### Main

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Main		cific
Range of product	Zelio Control	
Product or component type	Modular measurement and control relays	
Relay type	Level control relay	of these products for
Relay name	RM22L	t the
Relay monitored parameters	Detection by resistive probes	
Time delay type	Adjustable 0.130 s, +/- 10 % of the full scale value on crossing the threshold Tt	reliability.
Switching capacity in VA	2000 VA	or
Measurement range	250 Ohm1 MOhm	determining stitts
Complementary		**************************************
Reset time	<= 1750 ms	q

#### Complementary

Complementary		
Reset time	<= 1750 ms	
Maximum switching voltage	250 V AC	
Minimum switching current	10 mA at 5 V DC	
Maximum switching current	8 A AC	
[Us] rated supply voltage	24240 V AC/DC, 50/60 Hz	
Supply voltage limits	20.4264 V AC/DC	
Control circuit voltage limits	- 15 % + 10 % Un	
Power consumption in VA	5 VA AC	
Power consumption in W	1.5 W DC	
Output contacts	2 C/O	
Nominal output current	8 A	
Run-up delay at power-up	< 0.6 s < 2.5 s	
Maximum electrode voltage	12 V AC	
Maximum electrode current	1 mA	
Repeat accuracy	+/- 2 % time delay	Ĩ
Measurement error	< 1 % over the whole range with voltage variation 0.05 %/°C with temperature variation	



Sensitivity scale	0.255 kOhm at LS (Low Sensitivity) 5100 kOhm at St (Standard Sensitivity) 501000 kOhm at HS (High Sensitivity)	
Sensitivity adjustment	5100 %	
Supply current for sensors	<= 1 mA	
Cable distance between devices	1000 m between probe and delay	
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 resistance	> 100 MOhm at 500 V DC conforming to IEC 60255-27	
Insulation	Between supply and measurement	
Mounting position	Any position	
Connections - terminals	Screw terminals 2 x 0.52 x 2.5 mm <sup>2</sup> - AWG 20AWG 14, solid cable without cable end Screw terminals 2 x 0.22 x 1.5 mm <sup>2</sup> - AWG 24AWG 16, flexible cable with cable end Screw terminals 1 x 0.51 x 3.3 mm <sup>2</sup> - AWG 20AWG 12, solid cable without cable end Screw terminals 1 x 0.21 x 2.5 mm <sup>2</sup> - AWG 24AWG 14, flexible cable with cable end	
Tightening torque	0.61 N.m conforming to IEC 60947-1	
Housing material	Self-extinguishing plastic	
Status LED	LED yellow for relay ON LED green for power ON	
Mounting support	35 mm DIN rail conforming to EN/IEC 60715	
Electrical durability	100000 cycles	
Mechanical durability	1000000 cycles	
Utilisation category	AC-1 conforming to IEC 60947-4-1 DC-1 conforming to IEC 60947-4-1 AC-15 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1	
Safety reliability data	B10d = 170000 MTTFd = 182.6 years	
Contacts material	Cadmium free	
Width	22.5 mm	
Product weight	0.11 kg	
Functionality	Resistive probe detection	
Compatibility code	RM22	

#### Environment

Immunity to microbreaks	100 ms DC 90 ms AC	
Electromagnetic compatibility	Conducted and radiated emissions class B conforming to CISPR 22 Immunity for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-1 Electrostatic discharge 6 kV level 3 contact discharge conforming to IEC 61000-4-2 Electrostatic discharge 8 kV level 3 air discharge conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test 10 V/m level 3 conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test 4 kV level 4 direct conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test 2 kV level 4 capacitive coupling conforming to IEC 61000-4-4 Surge immunity test 4 kV level 4 common mode conforming to IEC 61000-4-5 Surge immunity test 2 kV level 4 differential mode conforming to IEC 61000-4-5 Conducted and radiated emissions class B group 1 conforming to CISPR 11 Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to EN/IEC 61000-6-2	
Standards	EN/IEC 60255-1	
Product certifications	ertifications CSA RCM GL UL EAC China RoHS	

	CE CCC	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-2050 °C at 60 Hz -2060 °C at 50 Hz AC/DC	
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 for 11 ms (not in operation) conforming to IEC 60068-2-27 5 gn for 11 ms (in operation) conforming to IEC 60068-2-27	
IP degree of protection	IP20 on terminals conforming to IEC 60529 IP40 on housing conforming to IEC 60529 IP50 on front panel conforming to IEC 60529	
Pollution degree	3 conforming to IEC 60664-1	
Dielectric test voltage	2.5 kV for 1 min AC 50 Hz conforming to IEC 60255-27	

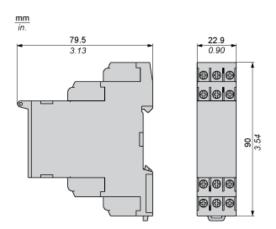
### Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 1524 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
	Product environmental	
Product end of life instructions	Available	
	End of life manual	

Product data sheet **Dimensions Drawings** 

# RM22LA32MR

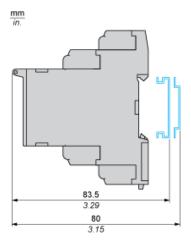
#### Dimensions



# RM22LA32MR

## Mounting and Clearance

### Rail Mounting



### Level Control Relay

#### Wiring Diagram

A1	A2	NC	
Min	Max	С	
Min Wax C 211 22			
12	11	14	
22	21	24	

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

C : References or Tank earth electrode

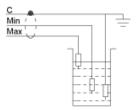
11-14,12 : 1st C/O contact of output relay

21-24,22 : 2nd C/O contact of output relay

# RM22LA32MR

## Control by Electrodes

#### Wiring Diagram



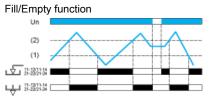
A1,A2 : Supply voltage Max : High level Min : Low level C : References or Tank earth electrode 11-14,12 : 1st C/O contact of output relay

# RM22LA32MR

**Technical Description** 

#### **Function Diagrams**

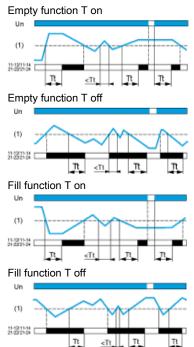




### Legend

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



#### 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.