Product datasheet Characteristics

RM22LA32MT

Level control relay RM22-L - 380..415 V AC - 2 C/



Price*: 109.95 GBP



Main

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Range of product	Zelio Control	
Product or component type	Modular measurement and control relays	
Relay type	Level control relay	
Relay name	RM22L	
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	
Switching capacity in VA	2000 VA	
Measurement range	250 Ohm1 MOhm	

Complementary

Reset time	1750 ms	
Maximum switching voltage	250 V AC	ee C
Minimum switching current	10 mA at 5 V DC	01 10
Maximum switching current	8 A AC	S
[Us] rated supply voltage	380415 V AC 50/60 Hz	or and
Supply voltage limits	323456.5 V AC	4
Operating limits	- 15 % + 10 % Un	S
Power consumption in VA	8 VA AC	asa
Output contacts	2 C/O	מפנים
Nominal output current	8 A	
Run-up delay at power-up	2.5 s 0.6 s	
Maximum electrode voltage	12 V AC	Jerita
Maximum electrode current	1 mA	000
Repeat accuracy	+/- 2 % for time delay	7
Measurement error	< 1 % over the whole range with voltage variation 0.05 %/°C with temperature variation	Call

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	
Maximum cable distance between devices	1000 m between probe and delay	
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 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 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	
Status LED	LED (yellow)relay ON: LED (green)power ON:	
Mounting support	35 mm DIN rail conforming to EN/IEC 60715	
Electrical durability	100000 cycles	
Mechanical durability	10000000 cycles	
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	
Safety reliability data	MTTFd = 182.6 years B10d = 170000	
Contacts material	Cadmium free	
Width	22.5 mm	
Product 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 EN/IEC 61000-6-1 Immunity for industrial environments conforming to EN/IEC 61000-6-2 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Emission standard for industrial environments conforming to EN/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	EN/IEC 60255-1
Product certifications	GL UL CCC EAC RCM CE CSA

	China RoHS	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-20…50 °C at 60 Hz -20…60 °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 (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	

Offer Sustainability

Sustainable offer status	Green Premium product	
U RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration		
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
WEEE The product must be disposed on European Union markets following specific we never end up in rubbish bins		

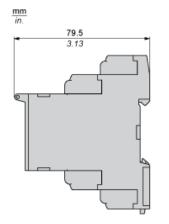
Contractual warranty

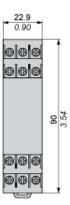
Warranty	18 months	

Product datasheet Dimensions Drawings

RM22LA32MT

Dimensions



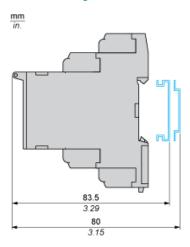


Product datasheet Mounting and Clearance

RM22LA32MT

Mounting and Clearance

Rail Mounting



Product datasheet Connections and Schema

RM22LA32MT

Level Control Relay

Wiring Diagram

A1	A2	NC
Min	Max	С
Min Max	2 2 4	Z Z
12	11	14
22	21	24

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

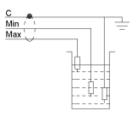
C : References or Tank earth electrode 11-14,12 : 1st C/O contact of output relay 21-24,22 : 2nd C/O contact of output relay

Product datasheet Connections and Schema

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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

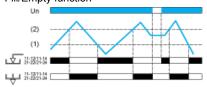
Product datasheet Technical Description

RM22LA32MT

Function Diagrams

Control of Two Levels

Fill/Empty function



Legend

Un Supply voltage

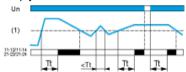
- (1) Min. level
- (2) Max. level

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

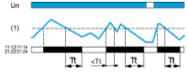
Relay status: black color = energized.

Control of One Level

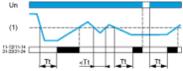
Empty function T on



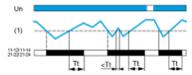
Empty function T off



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

Relay status: black color = energized.