RM35LV14MW

liquid level control relay RM35-L - 24..240 V AC/DC - 1 C/O





Main

Range of product	Zelio Control
Product or component type	Modular measurement and control relays
Relay type	Level control relay
Relay name	RM35L
Relay monitored parameters	Detection by discrete sensors
Time delay type	Adjustable 0.15 s, +/- 10 %
Switching capacity in VA	1250 VA
Minimum switching current	10 mA at 5 V DC
Maximum switching current	5 A AC/DC
Power consumption in VA	<= 5 VA AC
Utilisation category	AC-12 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1

Complementary

1000 ms 4000 ms
250 V AC/DC
24240 V AC/DC 50/60 Hz +/- 10 %
20.4264 V AC/DC
- 15 % + 10 % Un
<= 1.5 W DC
1 C/O
5 A
0.5 s
+/- 10 % of the full scale value +/- 20 % for the HS range
+/- 2 % for time delay
0.5 %/°C with temperature variation
100 m
5100 %
<= 40 mA
<= 10 nF probe cable
CE: 73/23/EEC CE: EMC 89/336/EEC
III conforming to IEC 60664-1
 > 500 MOhm at 500 V DC between supply and relay output conforming to IEC 60255-5 > 500 MOhm at 500 V DC between measurement and relay output conforming to IEC 60664-1 > 1 MOhm at 500 V DC between supply and measurement conforming to IEC 60255-5 > 500 MOhm at 500 V DC between supply and relay output conforming to IEC 60664-1 > 500 MOhm at 500 V DC between measurement and relay output conforming to IEC 60255-5 > 1 MOhm at 500 V DC between supply and measurement conforming to IEC 60664-

[Ui] rated insulation voltage	250 V conforming to IEC 60664-1
Operating position	Any position without derating
Connections - terminals	Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 2 x 0.52 x 2.5 mm² - AWG 20AWG 14, solid cable without cable end Screw terminals 1 x 0.21 x 2.5 mm² - AWG 24AWG 12, flexible cable with cable end Screw terminals 2 x 0.22 x 1.5 mm² - AWG 24AWG 16, flexible cable with cable end
Tightening torque	0.61 N.m conforming to IEC 60947-1
Housing material	Self-extinguishing plastic
Local signalling	LED green for power ON LED yellow for relay ON LED yellow for timer ON
Mounting support	35 mm symmetrical DIN rail conforming to EN/IEC 60715
Electrical durability	100000 cycles
Mechanical durability	30000000 cycles
Operating rate	<= 360 operations/hour under full load
Safety reliability data	MTTFd = 182.6 years B10d = 170000
Width	35 mm

Environment

immunity to microbreaks	100 ms DC 90 ms AC
electromagnetic compatibility	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 NF EN/IEC 61000-6-2
standards	EN/IEC 60255-6
product certifications	CSA C-Tick GL GOST UL
ambient air temperature for storage	-4070 °C
ambient air temperature for operation	-2050 °C
relative humidity	95 % at 55 °C conforming to IEC 60068-2-30
vibration resistance	0.35 mm (f = 557.6 Hz) conforming to IEC 60068-2-6 1 gn (f = 57.6150 Hz) conforming to IEC 60255-21-1
shock resistance	15 gn for 11 ms conforming to IEC 60255-21-1
IP degree of protection	IP20 IP20 IEC 60529 IEC 60529 terminals IEC 60529 IEC 60529 conforming to IEC 60529 IP30 IP30 IEC 60529 IEC 60529 casing IEC 60529 IEC 60529 conforming to IEC 60529
pollution degree	3 conforming to IEC 60664-1
dielectric test voltage	2 kV AC 50 Hz, 1 min conforming to IEC 60255-5 2 kV AC 50 Hz, 1 min conforming to IEC 60664-1

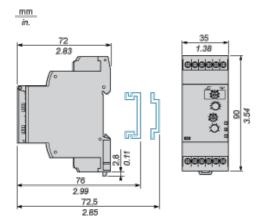
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0701 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Level Control Relays

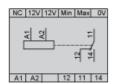
Dimensions and Mounting





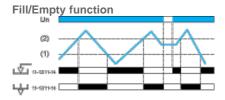
Level Control Relays

Wiring Diagram



Function Diagrams

Control of Two Levels



Legend

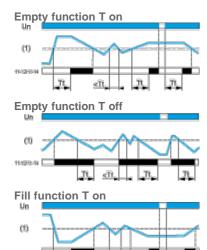
Un Nominal supply voltage

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

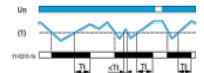
11-12/11-14, 21-22/21-24 Output relay connections

Relay status: black color = energized.

Control of One Level



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.