



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 resistive probes |
| Time delay type | Adjustable 0.1...5 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 |
| Measurement range | 250 Ohm...1 MOhm |
| 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

| | |
|--------------------------------|------------------------------------|
| Reset time | 1750 ms |
| Maximum switching voltage | 250 V AC/DC |
| [Us] rated supply voltage | 24...240 V AC/DC 50/60 Hz +/- 10 % |
| Supply voltage limits | 20.4...264 V AC/DC |
| Control circuit voltage limits | - 15 % + 10 % Un |
| Power consumption in W | <= 1.5 W DC |
| Output contacts | 2 C/O |
| Nominal output current | 5 A |
| Run-up delay at power-up | 0.6 s |
| Measurement accuracy | +/- 20 % for the HS range |

| | |
|-------------------------------|--|
| | +/- 10 % of the full scale value |
| Repeat accuracy | +/- 2 % for time delay |
| Measurement error | 0.5 %/°C with temperature variation |
| Sensitivity scale | 0.25...5 kOhm LS (Low Sensitivity) 5...100 kOhm St (Standard Sensitivity) 50...1000 kOhm HS (High Sensitivity) |
| Sensitivity adjustment | 5...100 % |
| Supply current for sensors | <= 1 mA |
| Cable length | 100 m between probe and delay |
| Cable capacitance | <= 1 nF HS (High Sensitivity) probe cable <= 2.2 nF St (Standard Sensitivity) probe cable <= 4.7 nF LS (Low Sensitivity) |
| Marking | CE : EMC 89/336/EEC CE : 73/23/EEC |
| Overvoltage category | III conforming to IEC 60664-1 |
| Insulation resistance | > 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 60664-1 |
| [Ui] rated insulation voltage | 250 V conforming to IEC 60664-1 |
| Operating position | Any position without derating |
| Connections - terminals | Screw terminals 1 x 0.5...1 x 4 mm ² - AWG 20...AWG 11, solid cable without cable end Screw terminals 2 x 0.5...2 x 2.5 mm ² - AWG 20...AWG 14, solid cable without cable end Screw terminals 1 x 0.2...1 x 2.5 mm ² - AWG 24...AWG 12, flexible cable with cable end Screw terminals 2 x 0.2...2 x 1.5 mm ² - AWG 24...AWG 16, flexible cable with cable end |
| Tightening torque | 0.6...1 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 | B10d = 170000 MTTFd = 182.6 years |
| 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 UL GOST |
| Ambient air temperature for storage | -40...70 °C |
| Ambient air temperature for operation | -20...50 °C |
| Relative humidity | 95 % at 55 °C conforming to IEC 60068-2-30 |
| Vibration resistance | 0.35 mm (f = 5...57.6 Hz) conforming to IEC 60068-2-6 1 gn (f = 57.6...150 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 (terminals) conforming to IEC 60529 |

| | |
|-------------------------|--|
| | IP30 (casing) 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

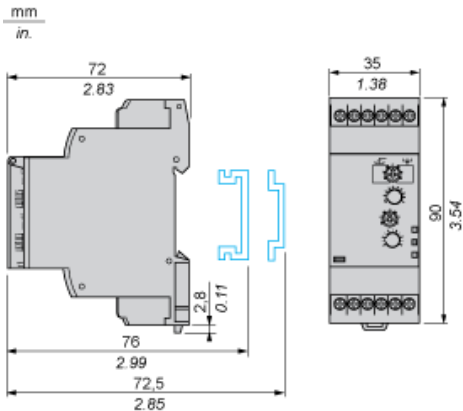
| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0701 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold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

Contractual warranty

| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

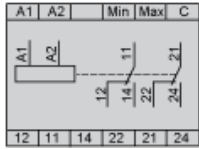
Level Control Relays

Dimensions and Mounting



Level Control Relays

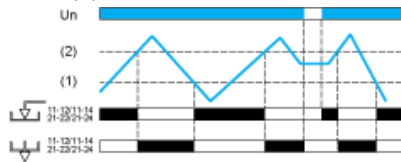
Wiring Diagram



Function Diagrams

Control of Two Levels

Fill/Empty function



Legend

Un Supply voltage

(1) Min. level

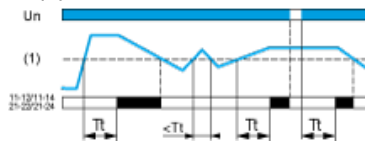
(2) Max. level

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

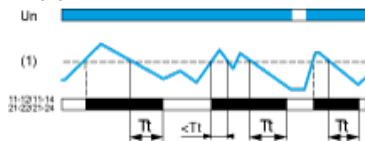
Relay status: black color = energized.

Control of One Level

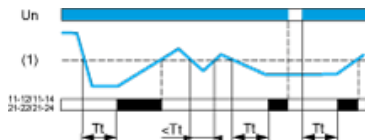
Empty function T on



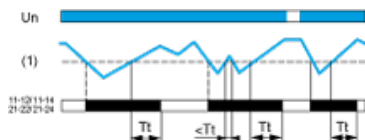
Empty function T off



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.