



### 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                 | RM35L  |
| Relay monitored parameters | Detection by resistive probes  |
| Time delay                 | 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<br>AC-13 conforming to IEC 60947-5-1<br>AC-14 conforming to IEC 60947-5-1<br>AC-15 conforming to IEC 60947-5-1<br>DC-12 conforming to IEC 60947-5-1<br>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   |
| Supply voltage limits          | 20.4...264 V AC/DC   |
| Control circuit voltage limits | - 15 % + 10 % Un   |
| Power consumption in W         | <= 1.5 W DC  |
| Width                          | 35 mm  |
| Output contacts                | 2 C/O  |
| Nominal output current         | 5 A  |
| Run-up delay at power-up       | 0.6 s  |
| Measurement accuracy           | +/- 10 % of the full scale value<br>+/- 20 % for the HS range  |
| Repeat accuracy                | +/- 2 % for time delay   |
| Measurement error              | 0.5 %/°C with temperature variation  |
| Sensitivity scale              | 0.25...5 kOhm LS (Low Sensitivity)<br>5...100 kOhm St (Standard Sensitivity)<br>50...1000 kOhm HS (High Sensitivity)           |
| Sensitivity adjustment         | 5...100 %  |
| [Us] rated supply voltage      | <= 12 V  |
| Supply current for sensors     | <= 1 mA  |
| Cable length                   | 100 m between probe and delay  |
| Cable capacitance              | <= 1 nF HS (High Sensitivity) probe cable<br><= 2.2 nF St (Standard Sensitivity) probe cable<br><= 4.7 nF LS (Low Sensitivity) |
| Marking                        | CE : 73/23/EEC<br>CE : EMC 89/336/EEC  |
| Overvoltage category           | III conforming to IEC 60664-1  |
| Insulation resistance          | > 500 MOhm at 500 V DC conforming to IEC 60255-5<br>> 500 MOhm at 500 V DC conforming to IEC 60664-1                           |
| [Ui] rated insulation voltage  | 250 V conforming to IEC 60664-1  |
| Supply frequency               | 50/60 Hz +/- 10 %  |
| Insulation                     | Between supply and measurement   |
| Operating position             | Any position without derating  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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|-------------------------|--|
| Connections - terminals | Screw terminals 1 x 0.5...1 x 4 mm <sup>2</sup> - AWG 20...AWG 11, solid cable without cable end<br>Screw terminals 2 x 0.5...2 x 2.5 mm <sup>2</sup> - AWG 20...AWG 14, solid cable without cable end<br>Screw terminals 1 x 0.2...1 x 2.5 mm <sup>2</sup> - AWG 24...AWG 12, flexible cable with cable end<br>Screw terminals 2 x 0.2...2 x 1.5 mm <sup>2</sup> - 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   |
| Status LED              | 1 LED green for power ON<br>1 LED yellow for relay ON<br>1 LED yellow for timing 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   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Immunity to microbreaks               | 100 ms DC<br>90 ms AC  |
| Electromagnetic compatibility         | Emission standard for industrial environments conforming to EN/IEC 61000-6-4<br>Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3<br>Immunity for industrial environments conforming to NF EN/IEC 61000-6-2 |
| Standards                             | EN/IEC 60255-6   |
| Product certifications                | CSA<br>C-Tick<br>GL<br>GOST<br>UL  |
| 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/IEC 60255-21-1<br>1 gn (f = 57.6...150 Hz) conforming to IEC 60068-2-6/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<br>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<br>2 kV AC 50 Hz, 1 min conforming to IEC 60664-1   |
| Non-dissipating shock wave            | 4 kV conforming to IEC 60255-5<br>4 kV conforming to IEC 60664-1<br>4 kV conforming to IEC 61000-4-5   |

## Contractual warranty

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| Period | 18 months |
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