

RMTJ60BD

temperature transmitter - 0..300 °C/32..572 °F - for thermocouples J



Main

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|---------------------------|---|
| Range of product | Zelio Analog |
| Product or component type | Converter for thermocouples |
| Analogue input type | Thermocouple 0...300 °C/32...572 °F thermocouple J conforming to IEC 60584 |
| Analogue output type | Current 0...20 mA ≤ 500 Ohm Current 4...20 mA ≤ 500 Ohm Voltage 0...10 V ≥ 100 kOhm |

Complementary

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|-------------------------------|--|
| Protection type | Overvoltage protection on output (+/- 30 V) Reverse polarity protection on output Short-circuit protection on output |
| Analogue output voltage | -15...-11 V when no input or input wire broken 11...15 V when no input or input wire broken |
| Analogue output current | 0...30 mA when no input or input wire broken |
| [Us] rated supply voltage | 24 V DC +/- 20 %, non isolated |
| Current consumption | ≤ 40 mA for voltage output ≤ 60 mA for current output |
| Local signalling | LED green (power ON) |
| Measurement error | At 20 °C (electromagnetic interference of 10 V/m) At 20 °C |
| Repeat accuracy | +/- 0.25 % full scale at 20 °C +/- 0.8 % full scale at 60 °C |
| Temperature coefficient | 200 ppm/°C |
| Cold junction compensation | Built-in, measurement: between 0 and 60 °C |
| Clamping connection capacity | 1 x 2.5 mm ² 2 x 1.5 mm ² |
| Tightening torque | 0.6...1.1 N.m |
| Marking | CE |
| Surge withstand | 0.5 kV for 1.2/50 µs conforming to IEC 61000-4-5 |
| [Ui] rated insulation voltage | 2 kV |
| Fixing mode | By screws, mounting plate Clip-on, 35 mm symmetrical DIN rail |
| Safety reliability data | MTTFd = 49.2 years B10d = 45447 |
| Product weight | 0.12 kg |

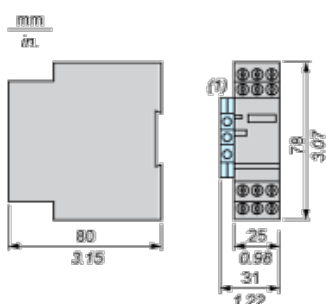
Environment

| | |
|-------------------------|---|
| standards | IEC 60584-1 IEC 60947-1 |
| product certifications | CSA GL UL |
| IP degree of protection | IP20 terminal block IP50 housing |
| fire resistance | 850 °C conforming to IEC 60695-2-1 850 °C conforming to UL |
| shock resistance | 50 gn for 11 ms conforming to IEC 60068-2-27 |
| vibration resistance | 5 gn (f = 10...100 Hz) conforming to IEC 60068-2-6 |

| | |
|---------------------------------------|--|
| resistance to electrostatic discharge | 6 kV (in contact) conforming to IEC 61000-4-2 level 3 8 kV (in air) conforming to IEC 61000-4-2 level 3 |
| resistance to fast transients | 1 kV on input-output conforming to IEC 61000-4-4 2 kV on power supply conforming to IEC 61000-4-4 |
| disturbance radiated/conducted | CISPR 11 CISPR 22 group 1 - class B |
| ambient air temperature for storage | -40...85 °C |
| ambient air temperature for operation | 0...50 °C (mounting side by side) 0...60 °C (2 cm spacing) |
| pollution degree | 2 conforming to IEC 60664-1 |

Analog Interface (Converter)

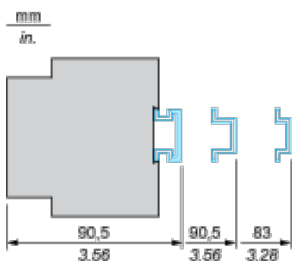
Dimensions



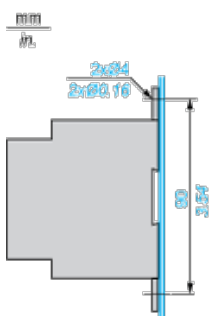
(1) Terminal block AB1TP435U or AB1RRNTP435U2

Mounting

Mounting on Rails AM1.....

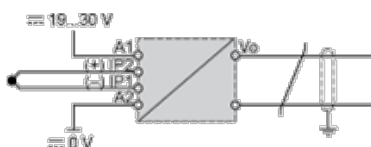


Panel Mounting



Analog Interfaces

Wiring Diagram



The input, output and power supply lines must be kept away from the power cables to avoid effects due to induced interference.
The input and output cables must be shielded as indicated in the diagram and must be kept away from each other.