RMTJ60BD

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



Main

Range of product	Zelio Analog
Product or component type	Converter for thermocouples
Analogue input type	Thermocouple 0300 °C/32572 °F thermocouple J conforming to IEC 60584
Analogue output type	Current 020 mA <= 500 Ohm Current 420 mA <= 500 Ohm Voltage 010 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	
Abnormal analogue output voltage	-1511 V when no input or input wire broken 1115 V when no input or input wire broken	
Abnormal analogue output current	030 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 mm² 2 x 1.5 mm²	
Tightening torque	0.61.1 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	

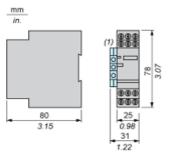
Vibration resistance	5 gn (f = 10100 Hz) conforming to IEC 60068-2-6	
Resistance to electrostatic discharge	6 kV (in contact) conforming to IEC 61000-4-2 level 3 8 kV (in air) conforming to IEC 61000-4-2 level 3	
Resistance to fast transients	1 kV on input-output conforming to IEC 61000-4-4 2 kV on power supply conforming to IEC 61000-4-4	
Disturbance radiated/conducted	CISPR 11 CISPR 22 group 1 - class B	
Ambient air temperature for storage	-4085 °C	
Ambient air temperature for operation	050 °C (mounting side by side) 060 °C (2 cm spacing)	
Pollution degree	2 conforming to IEC 60664-1	

Product data sheet Dimensions Drawings

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Analog Interface (Converter)

Dimensions



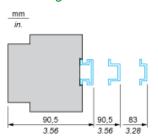
(1) Terminal block AB1TP435U or AB1RRNTP435U2

Product data sheet Mounting and Clearance

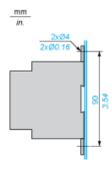
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Mounting

Mounting on Rails AM1 *****



Panel Mounting

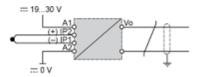


Product data sheet Connections and Schema

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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.