## Product data sheet Characteristics

# RMTJ60BD

Harmony Analog, Converter for thermocouples, temperature transmitter, 0...300 °C/32...572 °F





#### Main

Range of product	Harmony 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

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	-300 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) for power ON	
Measurement error	+/- 10 % of full scale at 20 °C (electromagnetic interference of 10 V/m) +/- 1 % of full scale 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	2 x 1.5 mm <sup>2</sup> 1 x 2.5 mm <sup>2</sup>	
Tightening torque	0.61.1 N.m	
Marking	CE	
Surge withstand	0.5 kV during 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	B10d = 45447 MTTFd = 49.2 years	
Net weight	0.12 kg	

#### Environment

IEC 60584-1
IEC 60947-1
CSA
GL
UL
IP20 (terminal block)
IP50 (housing)
850 °C conforming to IEC 60695-2-1
850 °C conforming to UL
50 gn for 11 ms conforming to IEC 60068-2-27
5 gn (f= 10100 Hz) conforming to IEC 60068-2-6
6 KV (in contact) conforming to IEC 61000-4-2 level 3
8 kV (in air) conforming to IEC 61000-4-2 level 3
1 KV (on input-output) conforming to IEC 61000-4-4
2 kV (on power supply) conforming to IEC 61000-4-4
CISPR 22 group 1 - class B
CISPR 11
-4085 °C
050 °C mounting side by side
060 °C 2 cm spacing
2 conforming to IEC 60664-1

## Packing Units

Package 1 Weight	0.101 kg	
Package 1 Height	0.270 dm	
Package 1 width	0.820 dm	
Package 1 Length	0.850 dm	

## Offer Sustainability

Green Premium product	
☑ REACh Declaration	
Pro-active compliance (Product out of EU RoHS legal scope)	
Yes	
₽¥Yes	
<b>☑</b> China RoHS Declaration	
Product Environmental Profile	
End Of Life Information	
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	

#### Contractual warranty

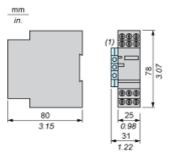
Warranty	18 months

# Product data sheet Dimensions Drawings

# RMTJ60BD

#### Analog Interface (Converter)

#### Dimensions



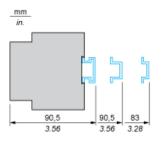
(1) Terminal block AB1TP435U or AB1RRNTP435U2

# Product data sheet Mounting and Clearance

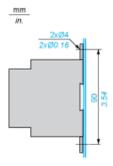
# RMTJ60BD

#### Mounting

### Mounting on Rails AM1 \*\*\*\*\*



#### **Panel Mounting**

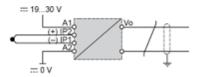


## Product data sheet Connections and Schema

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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.