

Product data sheet

Characteristics

RMTK90BD

temperature transmitter - 0..1200 °C/32..2192 °F - for thermocouples K

Product availability: Non-Stock - Not normally stocked in distribution facility



Main

Commercial Status	Commercialised
Range of product	Zelio Analog
Product or component type	Converter for thermocouples
Analogue input type	Thermocouple 0...1200 °C/32...2192 °F thermocouple K conforming to IEC 60584
Analogue output type	Voltage 0...10 V >= 100 kOhm Current 4...20 mA <= 500 Ohm Current 0...20 mA <= 500 Ohm

Complementary

Protection type	Overvoltage protection on output (+/- 30 V) Reverse polarity protection on output Short-circuit protection on output
Analogue output voltage	- 13 V when no input wired or wire broken
Analogue output current	0 A when no input wired or wire broken
[Us] rated supply voltage	24 V DC +/- 20 %, non isolated
Current consumption	<= 60 mA for current <= 40 mA for voltage output <= 40 mA for voltage
Local signalling	LED green (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	+/- 0.8 % full scale at 60 °C +/- 0.25 % full scale at 20 °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	5.31...9.73 lbf.in (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	Clip-on, 35 mm symmetrical DIN rail By screws, mounting plate
Product weight	0.26 lb(US) (0.12 kg)

Environment

Standards	IEC 60584-1 IEC 60947-1
Product certifications	CSA GL UL
IP degree of protection	IP50 housing IP20 terminal block
Fire resistance	1562 °F (850 °C) conforming to UL 1562 °F (850 °C) conforming to IEC 60695-2-1
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	8 kV (in air) conforming to IEC 61000-4-2 level 3 6 kV (in contact) conforming to IEC 61000-4-2 level 3
Resistance to fast transients	2 kV on power supply conforming to IEC 61000-4-4 1 kV on input-output conforming to IEC 61000-4-4
Disturbance radiated/conducted	CISPR 11 CISPR 22 group 1 - class B
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Ambient air temperature for operation	32...140 °F (0...60 °C) (2 cm spacing) 32...122 °F (0...50 °C) (mounting side by side)
Pollution degree	2 conforming to IEC 60664-1

Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	00785901561002
Nbr. of units in pkg.	1
Package weight(Lbs)	0.26
Product availability	Non-Stock - Not normally stocked in distribution facility
Returnability	N
Country of origin	ID

Contractual warranty

Period	18 months
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