



Main

Range of product	Zelio Analog
Product or component type	Converter for thermocouples
Analogue input type	Thermocouple 0...600 °C/32...112 °F thermocouple J conforming to IEC 60584
Analogue output type	Current 0...20 mA \leq 500 Ohm Current 4...20 mA \leq 500 Ohm Voltage 0...10 V \geq 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	-15...-11 V when no input or input wire broken 11...15 V when no input or input wire broken
Abnormal 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	\leq 40 mA for voltage output \leq 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 μ s 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
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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

Contractual warranty

Warranty period	18 months
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