



Main

Range of product	Zelio Analog
Product or component type	Converter for Optimum Pt100 probes
Analogue input type	Temperature probe - 40...40 °C/- 40...104 °F Pt 100 2, 3 or 4 wires
Analogue output type	Current 4...20 mA <= 500 Ohm Voltage 0...10 V >= 100 kOhm

Complementary

Protection type	Overvoltage protection on output (+/- 30 V) Reverse polarity protection on output Reverse polarity protection on power supply 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 22...30 mA when no input or input wire broken
[Us] rated supply voltage	24 V DC non isolated +/- 20 %
Current consumption	<= 40 mA for voltage output <= 60 mA for current output
Local signalling	LED green (power ON)
Measurement error	+/- 0.5 % of full scale (3 or 4 wires) at 20 °C +/- 1 % of full scale (2 wires) at 20 °C +/- 10 % of full scale at 20 °C (electromagnetic interference of 10 V/m)
Repeat accuracy	+/- 0.2 % full scale at 20 °C +/- 0.6 % full scale at 60 °C
Temperature coefficient	150 ppm/°C
Maximum wiring resistance	0.2 Ohm connection in 2 wires
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	2000 V
Fixing mode	Clip-on, 35 mm symmetrical DIN rail Fixed, mounting plate
Safety reliability data	MTTFd = 43.9 years

B10d = 40564

Product weight 0.12 kg

Environment

Electromagnetic compatibility	Electrostatic discharge (test level: 6 kV, level 3 - contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge (test level: 8 kV, level 3 - air discharge) conforming to IEC 61000-4-2
Standards	DIN 43760 EN/IEC 60584-1 EN/IEC 60751 EN/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 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