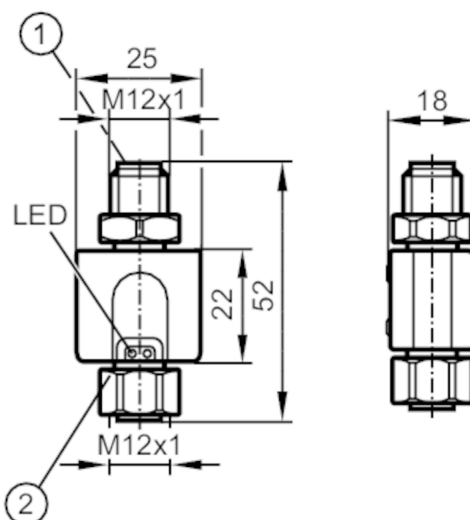




Evaluation unit for PT100/PT1000 temperature sensors

TP- CEC -A-ZVG/US/



- 1 connection for voltage supply and output signals
2 connection for temperature sensor



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1	
Measuring range	-50...300 °C	-58...572 °F
Communication interface	IO-Link	

Application

Special feature	Gold-plated contacts	
Application	for Pt100 and Pt1000 measuring elements	

Electrical data

Operating voltage	[V]	20...32 DC
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	1
Integrated watchdog		yes

Inputs / outputs

Number of inputs and outputs	Number of analogue outputs: 1	
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Outputs

Total number of outputs	1	
Output signal	analogue signal; IO-Link; (configurable)	
Number of analogue outputs	1	
Analogue current output	[mA]	4...20
Max. load	[Ω]	300
Short-circuit protection	yes	
Type of short-circuit protection	pulsed	
Overload protection	yes	

Measuring/setting range

Measuring range	-50...300 °C	-58...572 °F
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Factory setting	-50...300 °C
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Accuracy / deviations

Precision analogue output [K]	$\pm 0,3 + (\pm 0,1 \% \text{ MS})$
Temperature coefficient [% of the span / 10 K]	0,1

Response times

Max. measuring/display cycle [ms]	100
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Interfaces

Communication interface	IO-Link				
Transmission type	COM2 (38,4 kBaud)				
IO-Link revision	1.0				
Min. process cycle time [ms]	2.3				
Supported DeviceIDs	<table> <tr> <th>Type of operation</th><th>DeviceID</th></tr> <tr> <td>default</td><td>141</td></tr> </table>	Type of operation	DeviceID	default	141
Type of operation	DeviceID				
default	141				

Operating conditions

Ambient temperature [°C]	-25...70
Storage temperature [°C]	-40...85
Protection	IP 67

Tests / approvals

EMC	EN 61326-1	
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)
MTTF [years]		449

Mechanical data

Weight [g]	40.5
Housing	rectangular
Dimensions [mm]	52 x 25 x 18
Materials	PA; PET
Sealing material	FKM

Remarks

Remarks	operating voltage "supply class 2" according to cULus
	MS = set measuring span
Pack quantity	1 pcs.

Electrical connection

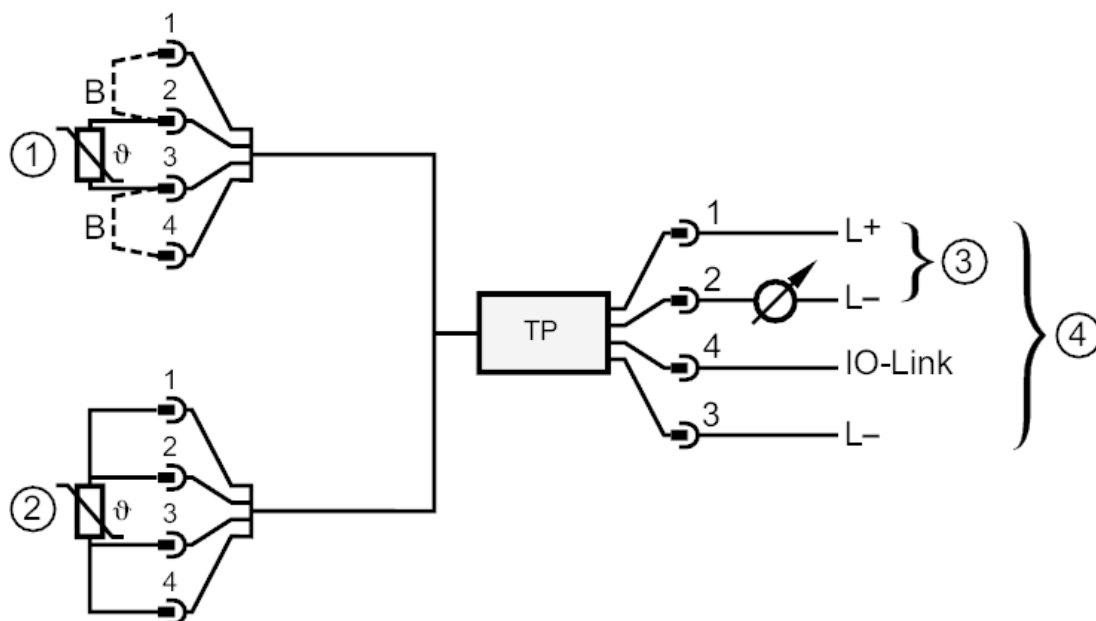
Connector: 1 x M12; coding: A; Moulded body: TPU; Locking: stainless steel (316L/1.4404); Sealing: FKM; Contacts: gold-plated



Evaluation unit for PT100/PT1000 temperature sensors

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Connection



- 1: two-wire sensor
- 2: four-wire sensor
- 3: operation as 2-wire temperature transmitter
- 4: operation as 3-wire unit, IO-Link communication possible
- B: link