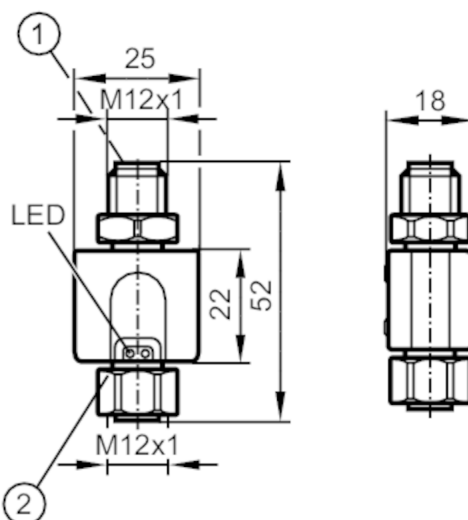




Evaluation unit for PT100/PT1000 temperature sensors

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



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1	
Measuring range	-50...300 °C	-58...572 °F

Application

System	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 analog outputs: 1
------------------------------	-----------------------------

Outputs

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

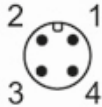
Measuring/setting range

Measuring range	-50...300 °C	-58...572 °F
Factory setting	-50...150 °C	



Evaluation unit for PT100/PT1000 temperature sensors

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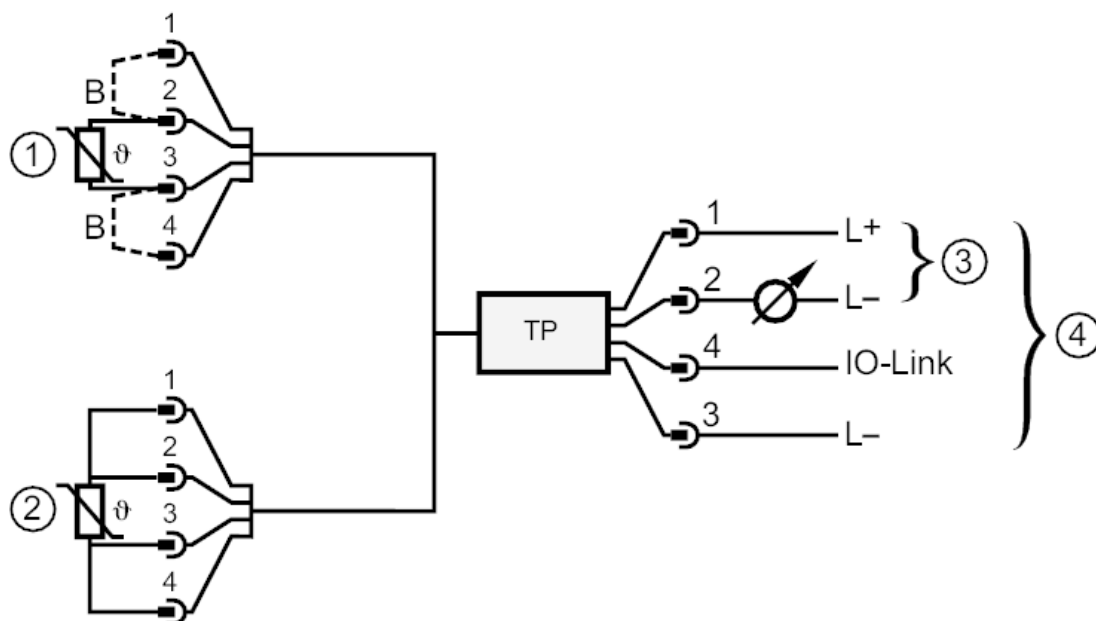
Accuracy / deviations		
Precision analog output	[K]	$\pm 0,3 + (\pm 0,1 \% \text{ MS})$
Temperature coefficient		0,1
	[% of the span / 10 K]	
Reaction times		
Max. measuring/display cycle	[ms]	100
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.0
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
Dimensions	[mm]	M12 x 1
Thread designation		M12 x 1
Material		PA; PET
Sealing material		FKM
Remarks		
Remarks		cULus - Class 2 source required
		MS = set measuring span
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; coding: A; Moulded body: TPU (urethane); Locking: stainless steel (1.4404 / 316L); 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: bridge