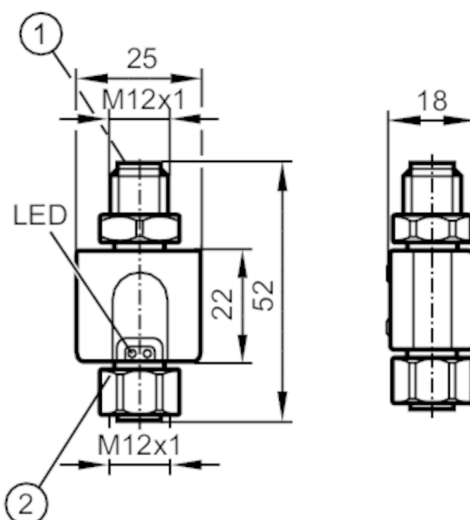




Evaluation unit for PT100/PT1000 temperature sensors

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 analog 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 analog outputs: 1
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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
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TP3231



Evaluation unit for PT100/PT1000 temperature sensors

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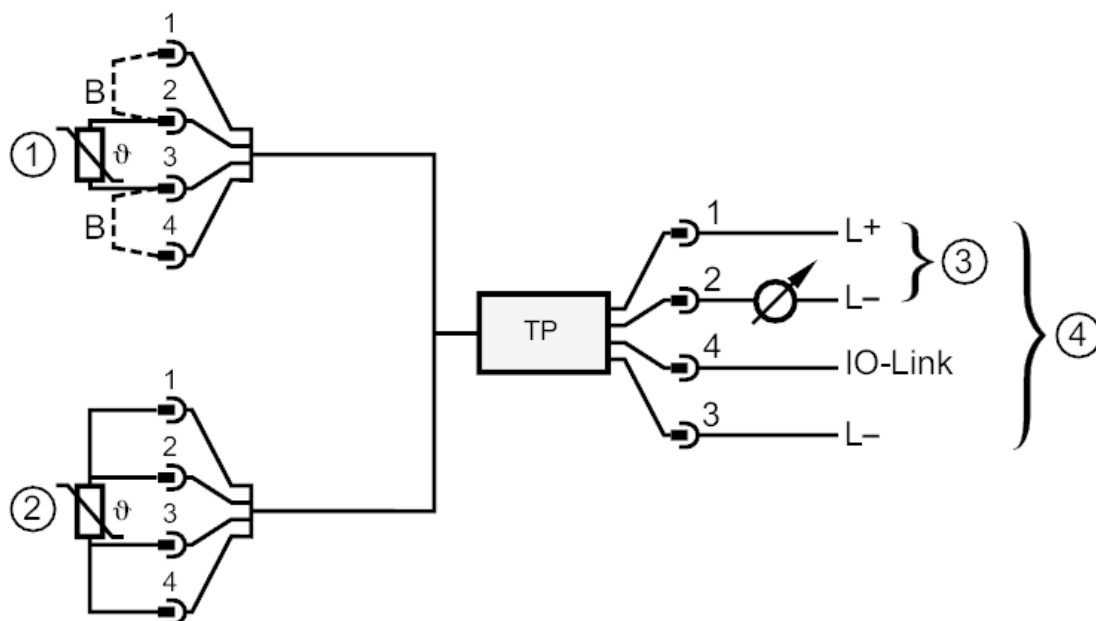
Factory setting		-50...150 °C	
Accuracy / deviations			
Precision analog output	[K]	± 0,3 + (± 0,1 % MS)	
Temperature coefficient		0,1	
	[% of the span / 10 K]		
Reaction times			
Max. measuring/display cycle	[ms]	100	
Interfaces			
Communication interface		IO-Link	
Transmission type		COM2 (38,4 kBaud)	
IO-Link revision		1.0	
Min. process cycle time	[ms]	2.3	
Supported DeviceIDs		Type of operation	DeviceID
		default	140
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	
Housing		rectangular	
Dimensions	[mm]	52 x 25 x 18	
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; Contacts: 4, gold-plated; Moulded body: TPU (urethane); Locking: stainless steel (1.4404 / 316L); sealing: FKM			
			



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