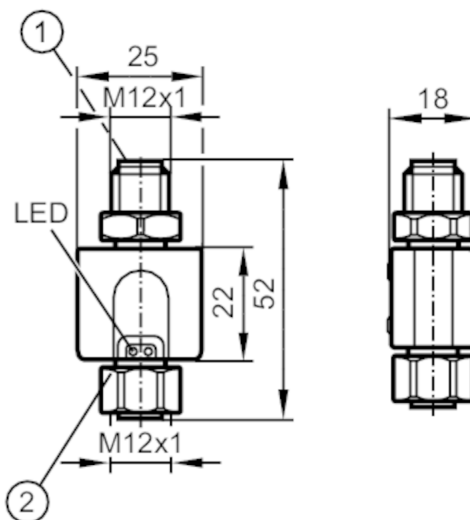


Evaluation unit for PT100/PT1000 temperature sensors

TP- FEC -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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Evaluation unit for PT100/PT1000 temperature sensors

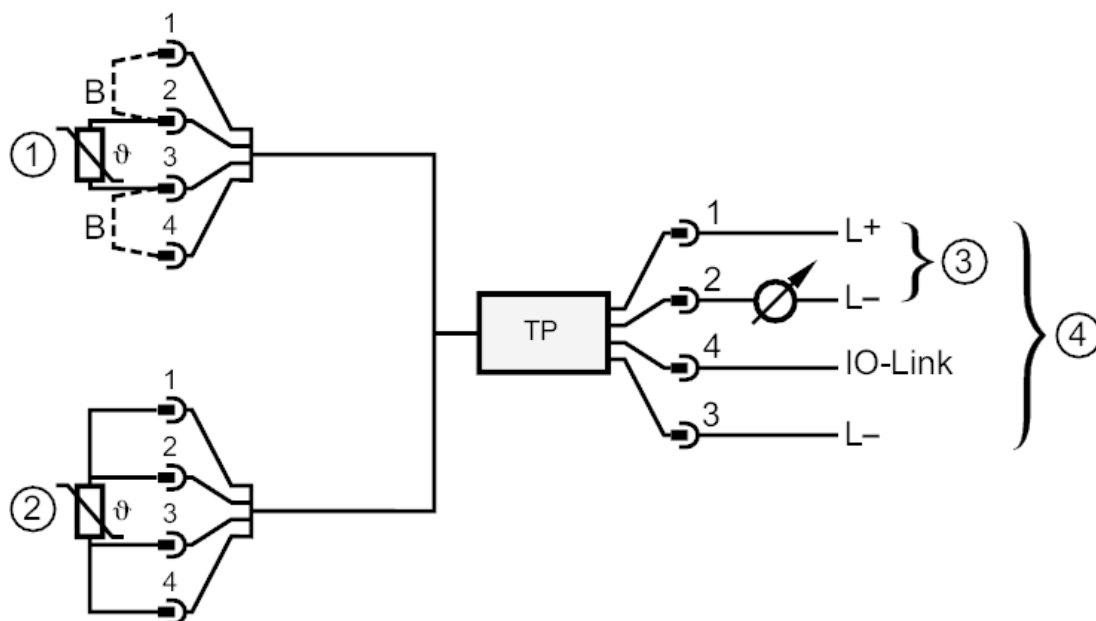
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Factory setting		0...300 °F	
Accuracy / deviations			
Precision analogue output		[K]	± 0,3 + (± 0,1 % MS)
Temperature coefficient			0,1
		[% of the span / 10 K]	
Response times			
Max. measuring/display cycle		[ms]	100
Interfaces			
Communication interface		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]	40.5
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

TP- FEC -A-ZVG/US/

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