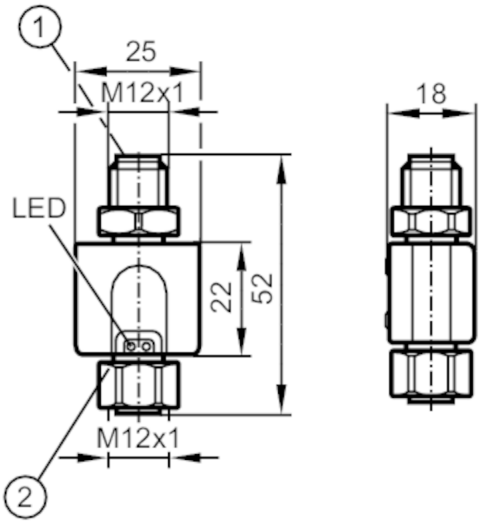
TP3231

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	
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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TP- CEC -A-ZVG/US/

Factory setting		-50...150 °C
Accuracy / deviations		
Precision analogue output	[K]	± 0,3 + (± 0,1 % MS)
Temperature coefficient [% of the span / 10 K]		0,1
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
Dimensions	[mm]	M12 x 1
Thread designation		M12 x 1
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 (1.4404 / 316L); Sealing: FKM; Contacts: gold-plated

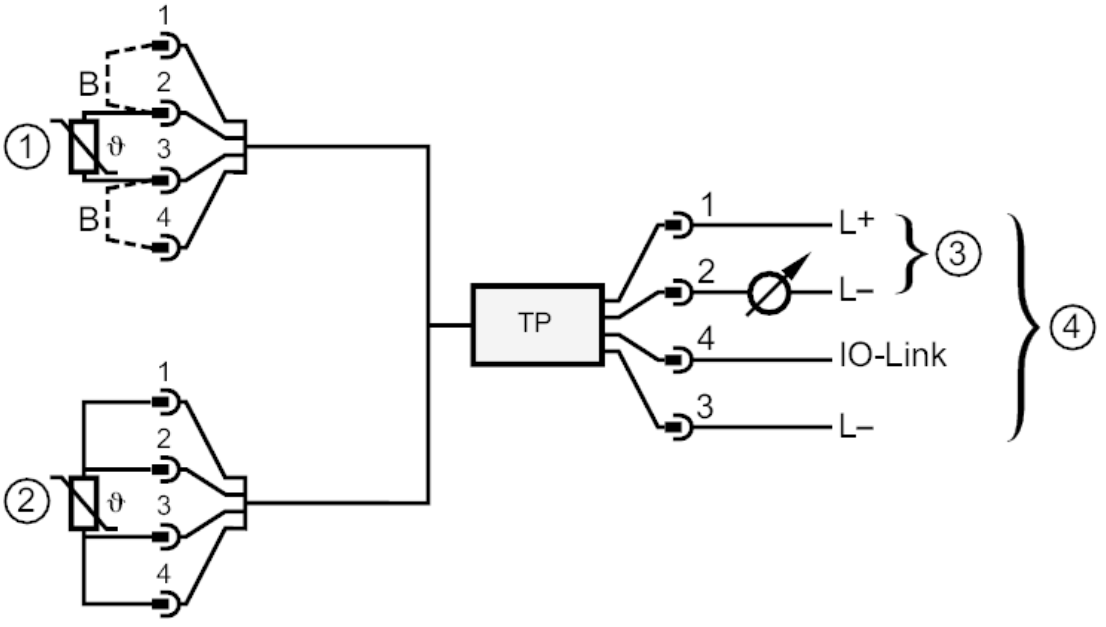


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Connection



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