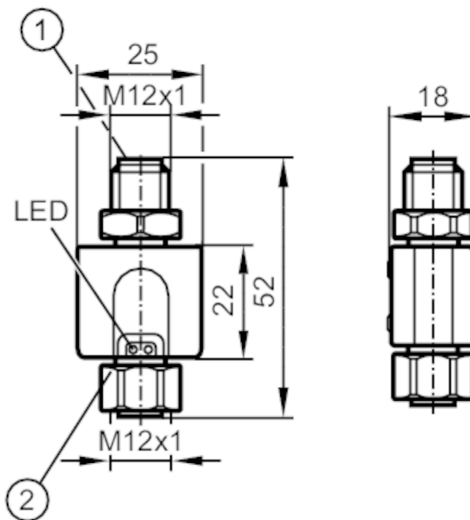# TP3237

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

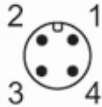| Product characteristics		
Number of inputs and outputs	Number of analogue outputs: 1	
Measuring range	-50...300 °C	-58...572 °F
Application		
Special feature	Gold-plated contacts	
Application	for Pt100 and Pt1000 measuring elements	
Electrical data		
Operating voltage [V]	20...32 DC	
Protection class	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
Factory setting	0...100 °C	

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TP- CEC -A-ZVG/US/

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]	41	
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

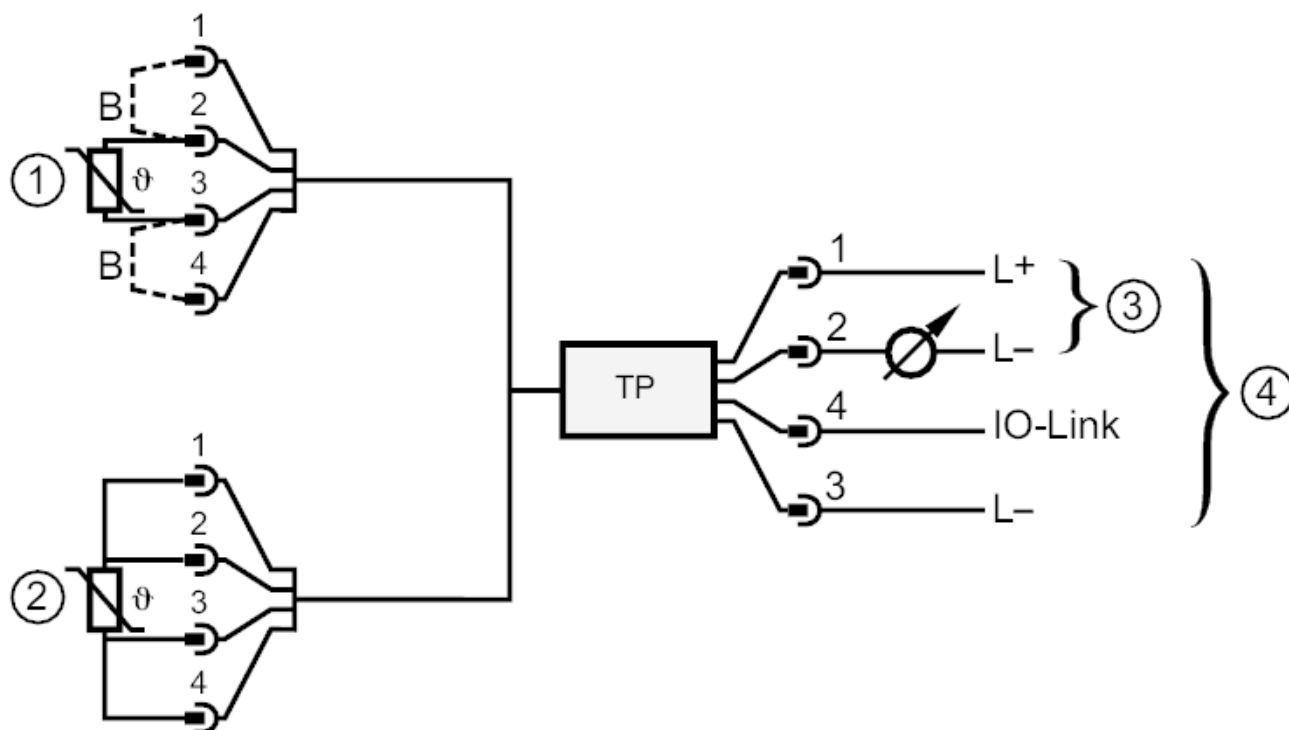Connector: 1 x M12; Moulded body: TPU; Locking: stainless steel (1.4404 / 316L); Sealing: FKM; Contacts: gold-plated

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Evaluation unit for PT100/PT1000 temperature sensors

TP- CEC -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