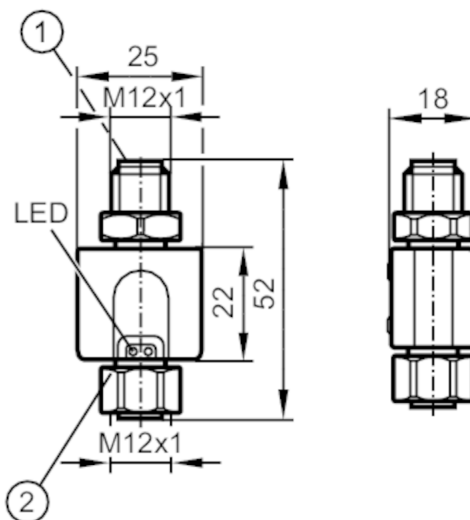


Evaluation unit for PT100/PT1000 temperature sensors

TP- CEC -A-ZVG/US/



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



Application

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	

Accuracy / deviations

Precision analogue output [K]	± 0,3 + (± 0,1 % MS)
Temperature coefficient [% of the span / 10 K]	0,1

TP3237



Evaluation unit for PT100/PT1000 temperature sensors

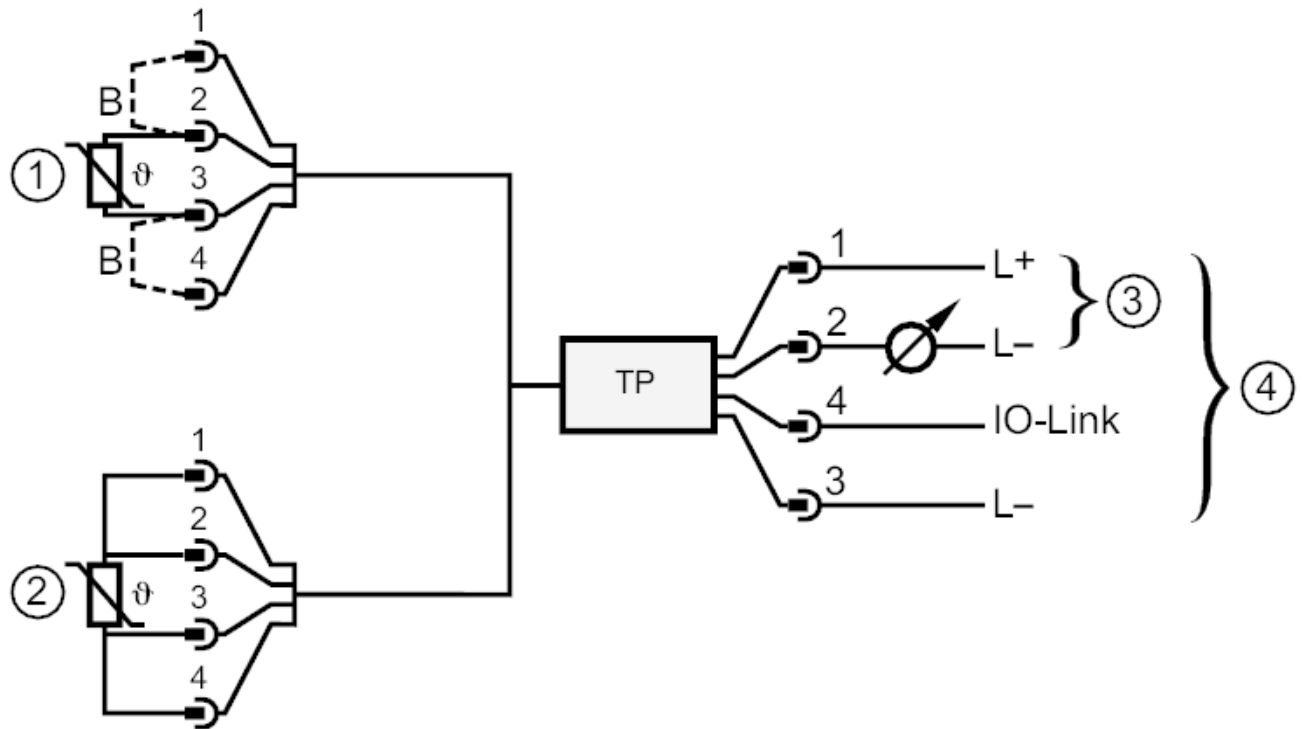
TP- CEC -A-ZVG/US/

Response times		
Max. measuring/display cycle	[ms]	100
Interfaces		
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]	40.2
Dimensions	[mm]	M12 x 1
Thread designation	M12 x 1	
Materials	PA; PET; Sealing: FKM; Lock nut: stainless steel (1.4404 / 316L); plug: TPU	
Material nut	stainless steel (1.4404 / 316L)	
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); Contacts: gold-plated		
		

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