efector600

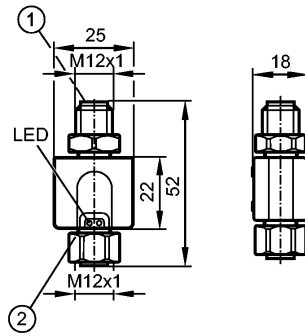## TP3237
TP- CEC -A-ZVG/US/

Evaluation systems

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

CE c(UL)us LISTED IO-Link

Made in Germany

Product characteristics	
Measured signal converter for temperature sensors	
for Pt100 and Pt1000 measuring elements	
Analogue output 4...20 mA	
Measuring range: -50...300 °C / -58...572 °F	

Electrical data		
Electrical design		DC
Operating voltage	[V]	20...32 DC
Protection class		III
Reverse polarity protection		yes

Outputs	
Output	Analogue output 4...20 mA
Output function	4...20 mA analogue
Short-circuit protection	pulsed
Overload protection	yes
Analogue output	4...20 mA; Rmax: 300 Ω

Measuring / setting range		
Measuring range	[°C/°F]	-50...300 / -58...572
Factory setting		0...100 °C

Accuracy / deviations		
Analogue output	[K]	± 0.3 + (± 0.1 % MS)
Temperature coefficients (in % of the span per 10 K)		0.1
Measured value via IO-Link	[K]	± 0.3 + (± 0.1 % MS)

Reaction times		
Power-on delay time	[s]	1
Measuring / display cycle [ms]	[ms]	100
Integrated watchdog		yes

Interfaces	
IO-Link Device	
Transfer type	COM2 (38.4 kBaud)
IO-Link revision	1.0

Environment		
Ambient temperature	[°C]	-25...70

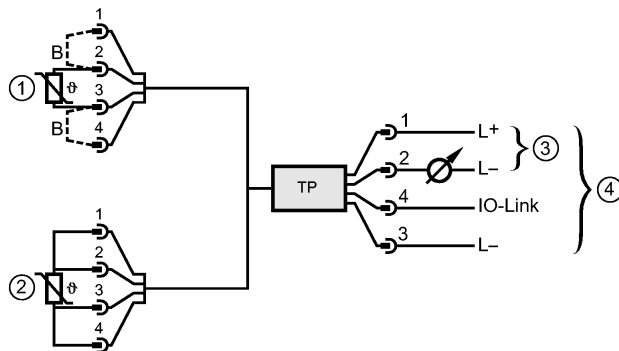|			
Storage temperature	[°C]	-40...85	
Protection		IP 67	
Tests / approvals			
EMC		EN 61326-1	
Shock resistance		DIN IEC 68-2-27:	50 g (11 ms)
Vibration resistance		DIN IEC 68-2-6:	20 g (10...2000 Hz)
MTTF	[Years]	449	
Mechanical data			
Housing materials		PA PACM 12 (TROGAMID); PET; sealing: FPM (Viton); nut: stainless steel 316L / 1.4404; connector: TPU	
Weight	[kg]	0.039	
Electrical connection			
Connection		M12 connector; Gold-plated contacts	

Wiring

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

Remarks	
Remarks	cULus - Class 2 source required The measuring range can be scaled: -50... 300 °C / -58...572 °F MS = set measuring span
Pack quantity [piece]	1