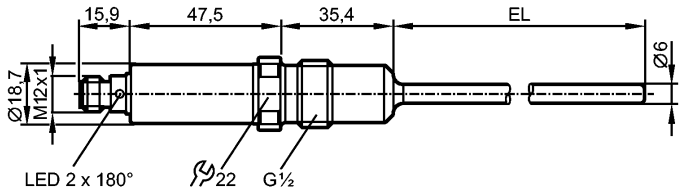
TA2502

TA-030CLER12- - /US

Temperature sensors



EC 1935/2004 EHEDG Certified

IO-Link

Product characteristics		
Temperature transmitter		
Process connection: G½ with sealing cone		
Installation length EL: 30 mm		
Suitable for direct installation		
Analog output		
Measuring range: -50...200 °C		
Measuring element: 1 x Pt 1000, to DIN EN 60751, class A		
Factory setting: 0...200 °C		
Application		
Application		liquids and gases
Pressure rating	[bar]	160
Vacuum resistance	[mbar]	-1000
Electrical data		
Electrical design		DC
Operating voltage	[V]	18...32 DC; cULus - Class 2 source required
Current consumption	[mA]	< 50
Protection class		III
Reverse polarity protection		yes
Outputs		
Output		Analog output
Output function		4...20 mA analog
Short-circuit protection		yes
Overload protection		yes
Analog output		4...20 mA
Max. load	[Ω]	250 (18...19 V); 300 (19...32 V)
Measuring / setting range		
Measuring range	°C	-50...200
Factory setting		0...200 °C
Resolution		
Analog output	[K]	≤ 0.04
Accuracy / deviations		
Analog output	[K]	± 0.3 + (± 0.1 % MS)
Temperature coefficients (in % of the span per 10 K)		0.1
Reaction times		

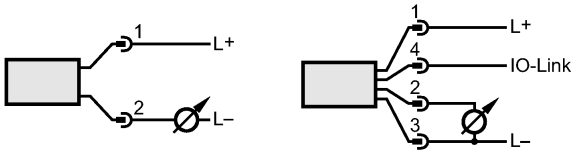
TA2502

TA-030CLER12- - /US

Power-on delay time	[s]	2
Dynamic response	T05 / T09 [s]	< 0.5 / < 2
Interfaces		
IO-Link Device		
Transfer type		COM2 (38.4 kBaud)
IO-Link revision		1.1
Environment		
Ambient temperature	[°C]	-25...80, at max. 160 °C medium temperature (-25...60 °C at max. 200 °C medium temperature)
Storage temperature	[°C]	-40...100
Protection		IP 67 / IP 68 / IP 69K
Tests / approvals		
EMC		DIN EN 61000-6-2 DIN EN 61000-6-3
Shock resistance		DIN IEC 68-2-27: 50 g (11 ms)
Vibration resistance		DIN IEC 68-2-6: 10 g (10...2000 Hz)
MTTF	[Years]	232
Mechanical data		
Process connection		G½ with sealing cone
Materials (wetted parts)		stainless steel 316L / 1.4404; surface characteristics Ra: < 0.6
Probe diameter	[mm]	6
Installation length EL	[mm]	30
Housing materials		stainless steel 316L / 1.4404; PEI; FKM
Weight	[kg]	0.168
Electrical connection		
Connection		M12 connector

Wiring





Remarks		
Remarks		MS = set measuring span
Pack quantity	[piece]	1