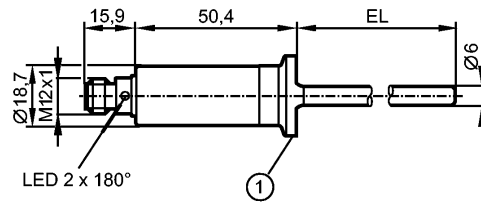


TA2002

TA-025CLEC34- - /US

Temperature sensors



1: 3/4" clamp (ISO 2852)



EC 1935/2004



IO-Link

Product characteristics

Temperature transmitter

Process connection: 3/4" clamp (ISO 2852)

Installation length EL: 25 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

Power-on delay time [s] 2

TA2002

TA-025CLEC34- - /US

Temperature sensors

Dynamic response	T05 / T09 [s]	< 0.5 / < 2.0
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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

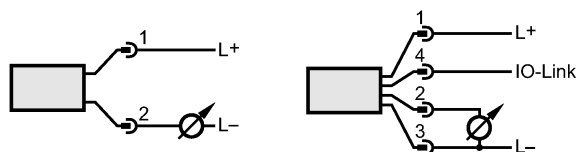
Mechanical data

Process connection		3/4" clamp (ISO 2852)
Materials (wetted parts)		stainless steel 316L / 1.4404; surface characteristics Ra: < 0.6
Probe diameter	[mm]	6
Installation length EL	[mm]	25
Housing materials		stainless steel 316L / 1.4404; PEI; FKM
Weight	[kg]	0.115

Electrical connection

Connection		M12 connector
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Wiring



Remarks

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