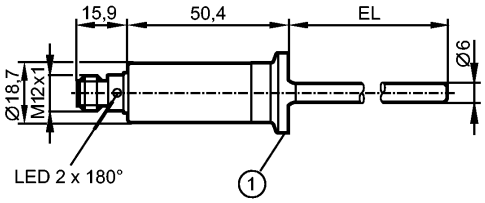
TA2002

TA-025CLEC34- - /US

Temperature sensors



1: 3/4" clamp (ISO 2852)

EC 1935/2004

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

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

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

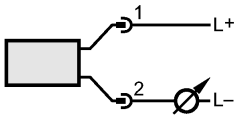
Process connection		3/4" clamp (ISO 2852)
Materials (wetted parts)		stainless steel 316L / 1.4404; surface characteristics Ra: < 0.6
Probe diameter	[mm]	6
Installation length EL	[mm]	25
Housing materials		stainless steel 316L / 1.4404; PEI; FKM
Weight	[kg]	0.115

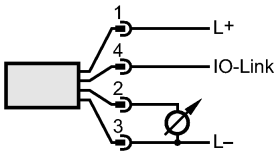
Electrical connection

Connection		M12 connector

Wiring







Remarks

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