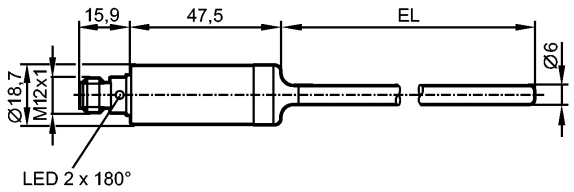
efector600

TA2232

TA-100CLED06- - /US

Temperature sensors



EC 1935/2004

Product characteristics		
Temperature transmitter		
Process connection: Ø 6 mm		
Installation length EL: 100 mm		
Suitable for direct installation		
Analogue 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; "supply class 2" to cULus.
Current consumption	[mA]	< 50
Protection class		III
Reverse polarity protection		yes
Outputs		
Output		Analogue output
Output function		4...20 mA analogue
Short-circuit protection		yes
Overload protection		yes
Analogue 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		
Analogue output	[K]	≤ 0.04
Accuracy / deviations		
Analogue output	[K]	± 0.3 + (± 0.1 % MS)
Temperature coefficients (in % of the span per 10 K)		0.1; In case of deviation from the reference condition 25 °C
Reaction times		
Power-on delay time	[s]	2
Dynamic response	T05 / T09 [s]	< 0.5 / < 2

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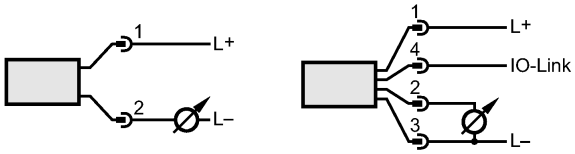
TA-100CLED06- - /US

Temperature sensors

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		Ø 6 mm
Materials (wetted parts)		stainless steel 316L / 1.4404; surface characteristics: Ra < 0.8 / electropolished
Probe diameter	[mm]	6
Installation length EL	[mm]	100
Housing materials		stainless steel 316L / 1.4404; PEI; FKM
Weight	[kg]	0.147
Electrical connection		
Connection		M12 connector

Wiring





Remarks		
Remarks		MS = set measuring span The values for accuracy apply to flowing water.
Pack quantity	[piece]	1