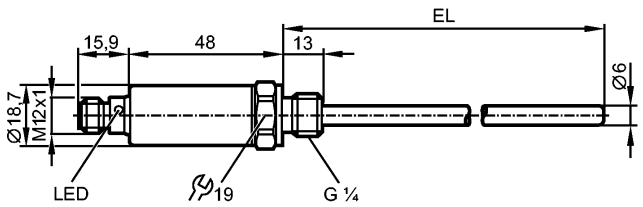
TA2135

TA-100CLER14-A-ZVG/US

Temperature sensors



Product characteristics		
Temperature transmitter		
Quick disconnect		
Process connection: G ¼		
Installation length EL: 100 mm		
Analog output 4...20 mA		
Measuring range: -50...150 °C		
Measuring element: 1 x Pt 1000, to DIN EN 60751, class A		
Factory setting: -50...150 °C		
Application		
Application		liquids and gases
Pressure rating	[bar]	300; only applies to the sensor; for installation in adapters the indications in the adapter data sheet shall apply
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 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...150
Factory setting		-50...150 °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]	1
Dynamic response	T05 / T09 [s]	1 / 3

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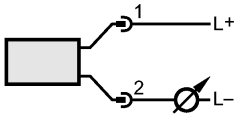
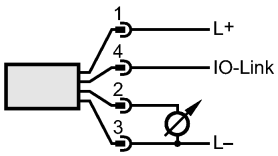
Temperature sensors

Interfaces		
IO-Link Device		
Transfer type		COM2 (38.4 kBaud)
IO-Link revision		1.1
Environment		
Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 67 / IP 68 / IP 69K
Tests / approvals		
EMC		DIN EN 61000-6-2
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]	572
UL approval number		K002
Mechanical data		
Process connection		G ¼
Materials (wetted parts)		stainless steel 316L / 1.4404; O-ring: FKM
Probe diameter	[mm]	6
Installation length EL	[mm]	100
Housing materials		stainless steel 316L / 1.4404; PEI; FKM
Weight	[kg]	0.083
Displays / operating elements		
Display		operating status 1 x LED green
Electrical connection		
Connection		M12 connector; gold-plated contacts

Wiring







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