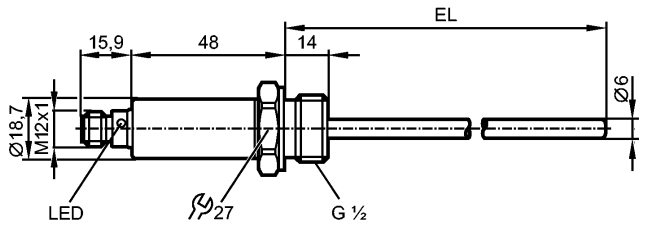
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TA2445

TA-150CLER12-A-ZVG/US

Temperature sensors



Product characteristics	
Temperature transmitter	
Quick disconnect	
Process connection: G ½	
Installation length EL: 150 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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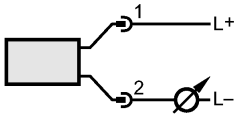
TA-150CLER12-A-ZVG/US

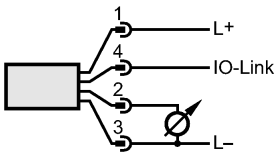
Temperature sensors

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 ½
Materials (wetted parts)		stainless steel 316L / 1.4404; O-ring: FKM
Probe diameter	[mm]	6
Installation length EL	[mm]	150
Housing materials		stainless steel 316L / 1.4404; PEI; FKM
Weight	[kg]	0.136
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