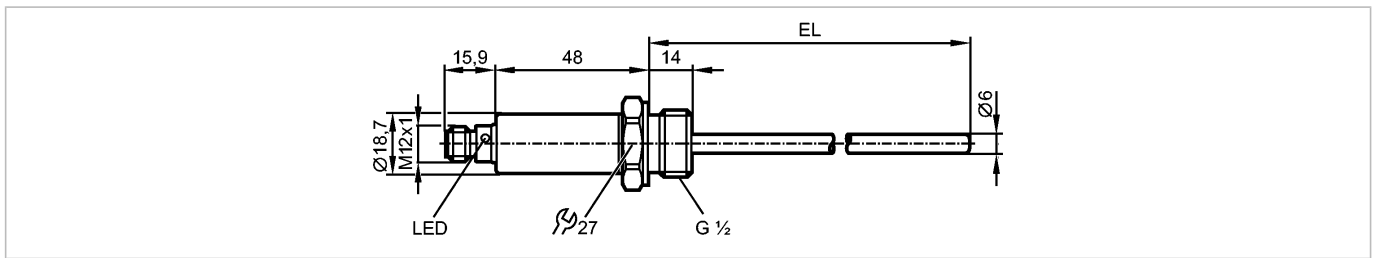


TA2435

TA-100CLER12-A-ZVG/US

Temperature sensors



Product characteristics

Temperature transmitter
Quick disconnect
Process connection: G ½
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]	160; 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

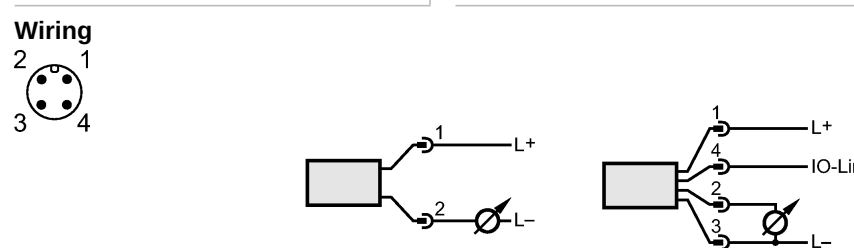
Reaction times

Power-on delay time [s]	1
Dynamic response T05 / T09 [s]	1 / 3

TA2435

TA-100CLER12-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]	100
Housing materials	stainless steel 316L / 1.4404; PEI; FKM
Weight [kg]	0.121
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