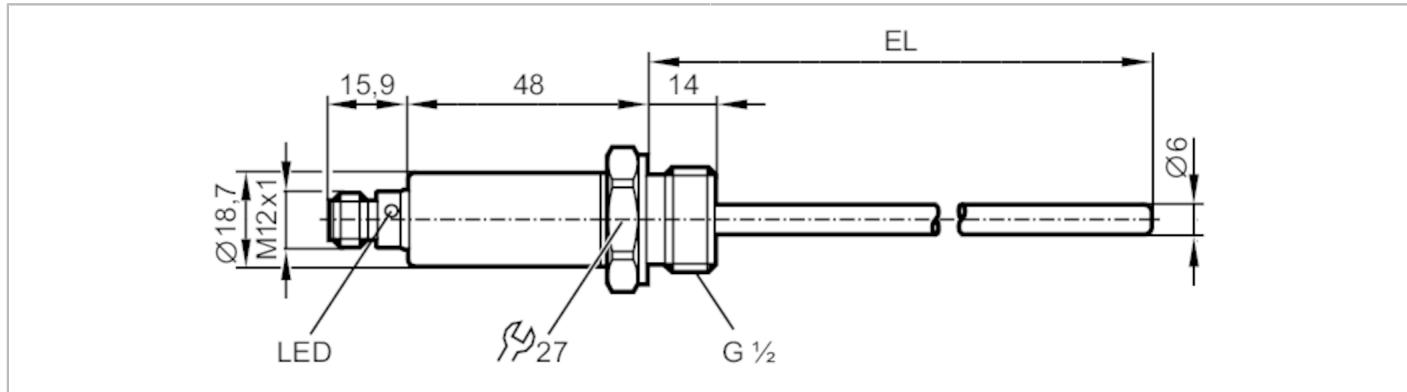


Temperature transmitter

TA-100CLER12-A-ZVG/US

cUL us
LISTEDDNV
DNV.COM/AF

IO-Link

UK
CA

Product characteristics

Number of inputs and outputs	Number of analog outputs: 1	
Measuring range	[°C]	-50...150
Communication interface		IO-Link
Process connection		threaded connection G 1/2 external thread
Installation length EL	[mm]	100

Application

System	gold-plated contacts	
Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)	
Media	liquids and gases	
Pressure rating	300 bar	30 MPa
Note on pressure rating	sensor When mounted in adapters the specifications of the adapter data sheet apply.	

Electrical data

Operating voltage	[V]	18...32 DC; (cULus - Class 2 source required)
Current consumption	[mA]	< 50
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	1

Inputs / outputs

Number of inputs and outputs	Number of analog outputs: 1	
Outputs		

Total number of outputs	1	
Output signal	analog signal; IO-Link; (configurable)	
Number of analog outputs	1	
Analog current output	[mA]	4...20
Max. load	[Ω]	250; ((18...19 V); 19...32 V: 300 Ω)
Short-circuit protection		yes
Overload protection		yes

Measuring/setting range

Probe length L	[mm]	86
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TA2435



Temperature transmitter

TA-100CLER12-A-ZVG/US

Measuring range	[°C]	-50...150
Factory setting		-50...150 °C
Resolution		
Resolution of analog output	[K]	0.04
Accuracy / deviations		
Precision analog output	[K]	± 0,3 + (± 0,1 % MS)
Temperature coefficient [% of the span / 10 K]		0,1; (In case of deviation from the reference condition 25 ± 5 °C)
Reaction times		
Dynamic response T05 / T09	[s]	1 / 3
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
Operating conditions		
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
Vibration resistance		DIN IEC 68-2-6
MTTF	[years]	572
UL approval		UL approval number
K002		
Mechanical data		
Weight	[g]	134.5
Housing		tubular
Dimensions	[mm]	Ø 18.7 / L = 163.9
Material		stainless steel (1.4404 / 316L); PEI; FKM
Materials (wetted parts)		stainless steel (1.4404 / 316L); O-ring: FKM
Tightening torque	[Nm]	45
Process connection		threaded connection G 1/2 external thread
Probe diameter	[mm]	6
Installation length EL	[mm]	100
Displays / operating elements		
Display	operating status	1 x LED, green
Remarks		
Remarks		MS = set measuring span
Pack quantity		1 pcs.

Temperature transmitter

TA-100CLER12-A-ZVG/US

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

