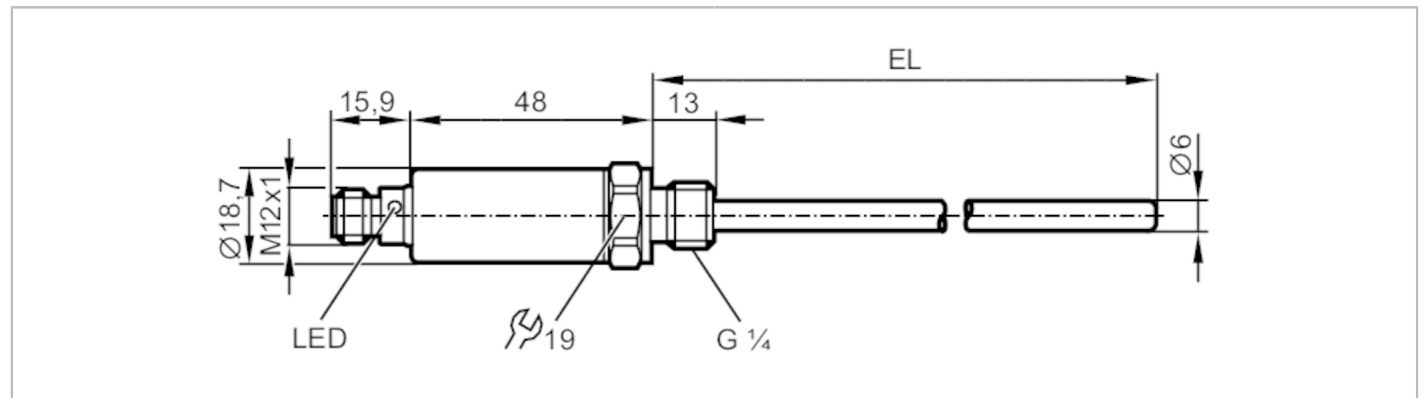


TA2105



Temperature transmitter

TA-025CLER14-A-ZVG/US



Application		
Measuring element		1 x Pt 1000; (to DIN EN 60751, class A)
Media		liquids and gases
Pressure rating	[bar]	400
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; ("supply class 2" to cULus)
Current consumption	[mA]	< 50
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	1
Outputs		
Total number of outputs		1
Output signal		analogue signal; IO-Link; (configurable)
Number of analogue outputs		1
Analogue 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		
Measuring range	[°C]	-50...150
Factory setting		-50...150 °C
Resolution		
Resolution of analogue output	[K]	0.04
Accuracy / deviations		
Precision analogue 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)
Response times		
Dynamic response T05 / T09	[s]	1 / 3

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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	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)
MTTF	[years]	572
UL approval	UL Approval no.	K002

Mechanical data

Weight	[g]	83.2
Dimensions	[mm]	Ø 18.7
Materials		stainless steel (1.4404 / 316L); PEI; FKM
Materials (wetted parts)		stainless steel (1.4404 / 316L); O-ring: FKM
Process connection		threaded connection G 1/4
Probe diameter	[mm]	6
Installation length EL	[mm]	25

Displays / operating elements

Display	operating status	1 x LED, green
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Remarks

Remarks	MS = set measuring span
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; Contacts: gold-plated



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Connection

