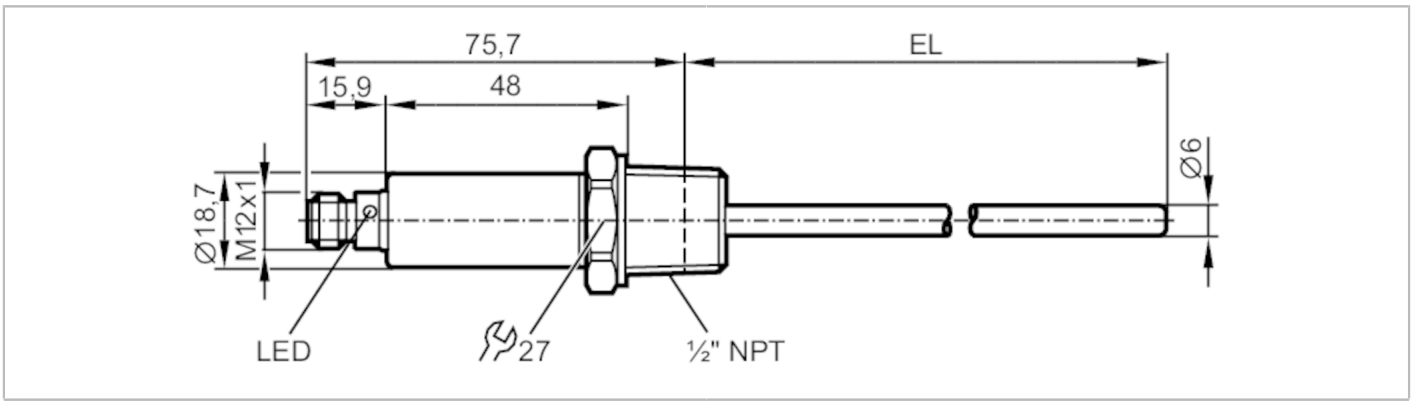
TA2333

Temperature transmitter

TA-100FLEN12-A-ZVG/US



Product characteristics			
Number of inputs and outputs		Number of analogue outputs: 1	
Measuring range	[°F]	-58...302	
Communication interface		IO-Link	
Process connection		threaded connection 1/2" NPT external thread	
Installation length EL	[mm]	100	
Application			
Special feature		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.	
MAWP for applications according to CRN	[bar]	300	
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	
Inputs / outputs			
Number of inputs and outputs		Number of analogue outputs: 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	

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Measuring/setting range			
Probe length L	[mm]	96.8	
Measuring range	[°F]	-58...302	
Factory setting		0...300 °F	
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	
Interfaces			
Communication interface		IO-Link	
Transmission type		COM2 (38,4 kBaud)	
IO-Link revision		1.1	
Profiles		Smart Sensor - SSP 0	Generic Profiled Sensor
		Function	Device identification
		Function	Process data variable
Min. process cycle time	[ms]	2.3	
Supported DeviceIDs		**Type of operation**	**DeviceID**
		default	378
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]	134.5	
Housing		cylindrical	
Dimensions	[mm]	Ø 18.7 / L = 175.7	
Materials		stainless steel (316L/1.4404); PEI; FKM	
Materials (wetted parts)		stainless steel (316L/1.4404)	
Process connection		threaded connection 1/2" NPT external thread	
Probe diameter	[mm]	6	
Installation length EL	[mm]	100	
Displays / operating elements			
Display		operating status	1 x LED, green

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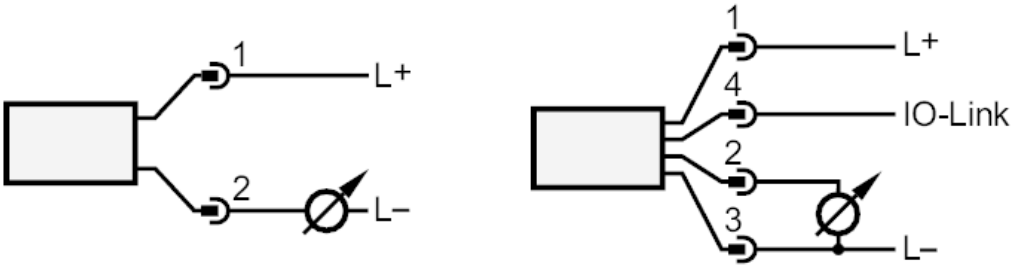
Remarks

Remarks	MS = set measuring span
Pack quantity	1 pcs.

Electrical connection

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

Connection