

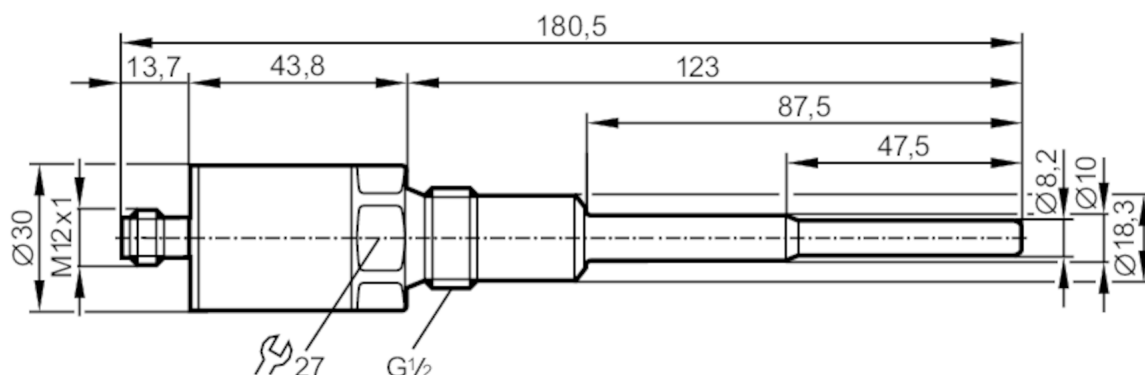
TA3430



Temperature transmitter

TA-100.LDR12-A-ZVG/US/

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Product characteristics

Number of inputs and outputs	Number of analog outputs: 1	
Measuring range	0...140 °C	32...284 °F
Process connection	threaded connection G 1/2 external thread	
Installation length EL [mm]	87.5	

Application

System	gold-plated contacts	
Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)	
Media	liquids and gases	
Medium temperature	< 150; (< 40 min) °C	< 302; (< 40 min) °F
Pressure rating [bar]	300	
Note on pressure rating	sensor	
	When mounted in adapters the specifications of the adapter data sheet apply.	
Minimum installation depth [mm]	15	

Electrical data

Operating voltage [V]	10...30 DC; (to SELV/PELV)	
Protection class	III	
Reverse polarity protection	yes	

Inputs / outputs

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

Total number of outputs	1
Output signal	analog signal
Number of analog outputs	1
Analog current output [mA]	4...20
Max. load [Ω]	500
Overload protection	yes

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Measuring/setting range		
Probe length L	[mm]	47.5
Measuring range	0...140 °C	32...284 °F
Resolution		
Resolution of analog output	[K]	0.02
Accuracy / deviations		
Precision analog output	[K]	$\pm 0,1$ (60°C / 140°F) / $\pm 0,5$ (0...140°C / 32...284°F)
Temperature coefficient [% of the span / 10 K]		$< \pm 0,1$; (In case of deviation from the reference condition 25 ± 5 °C)
Reaction times		
Dynamic response T05 / T09	[s]	1 / 3; (according to DIN EN 60751)
Operating conditions		
Ambient temperature	[°C]	-25...70
Storage temperature	[°C]	-40...100
Protection		IP 68; IP 69K
Tests / approvals		
EMC	DIN EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	DIN EN 61000-4-4 Burst	2 kV
	DIN EN 61000-4-5 Surge	0,5/1 kV
	EN 61000-4-6 HF conducted	10 V
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	10 g (10...2000 Hz)
Mechanical data		
Weight	[g]	229.8
Dimensions	[mm]	Ø 30 / L = 180.5
Material		stainless steel (1.4404 / 316L); stainless steel (1.4301 / 304); stainless steel (1.4305 / 303); PA
Materials (wetted parts)		stainless steel (1.4404 / 316L)
Tightening torque	[Nm]	30...50
Process connection		threaded connection G 1/2 external thread
Installation length EL	[mm]	87.5
Remarks		
Remarks		referring to UL: for use on a low voltage circuit with overcurrent protection in accordance with UL873 tab. 28.1 or $I_{max} = 100/U_b$ (U_b = voltage of the circuit) The values for accuracy apply to flowing water.
Pack quantity		1 pcs.

TA3430



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Electrical connection

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



Connection

