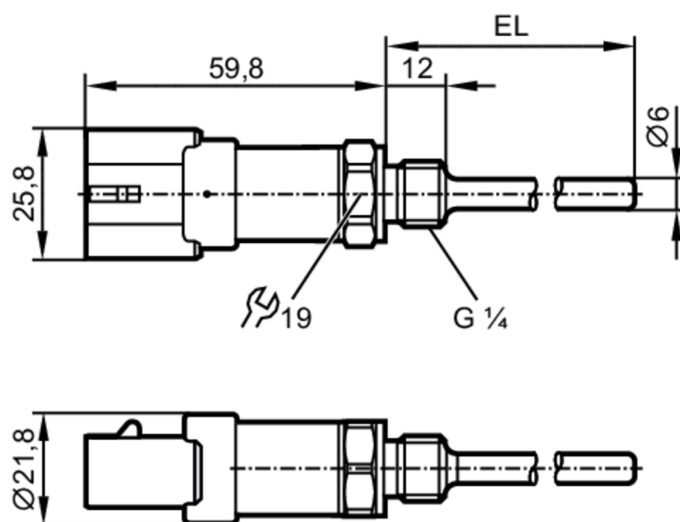


TA5105



Temperature transmitter

TA-025CLEM14-A-ZVG/AM



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1	
Measuring range	-50...150 °C	-58...302 °F
Process connection	threaded connection G 1/4 external thread	
Installation length EL [mm]	25	

Application

Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)	
Media	liquids and gases	
Pressure rating [bar]	400	

Electrical data

Operating voltage [V]	10...30 DC; (cULus - Class 2 source required)	
Current consumption [mA]	< 30	
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]	(U _b - 8,5 V) / 21,5 mA; 24 V: 720 Ω	
Short-circuit protection	yes	
Overload protection	yes	

Measuring/setting range

Probe length L [mm]	13	
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TA5105



Temperature transmitter

TA-025CLEM14-A-ZVG/AM

Measuring range	-50...150 °C	-58...302 °F
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Resolution		
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Resolution of analog output	[K]	0.04
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Accuracy / deviations

Precision analog output	[K]	$\pm 0,3 + (\pm 0,1 \% \text{ MS})$
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Temperature coefficient	0,1; (In case of deviation from the reference condition $25 \pm 5 \text{ °C}$)	
	[% of the span / 10 K]	

Reaction times

Dynamic response T05 / T09	[s]	1 / 3; (according to DIN EN 60751)
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Operating conditions

Ambient temperature	[°C]	-40...100
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Storage temperature	[°C]	-40...100
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Protection	IP 68; IP 69K	
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Tests / approvals

EMC	DIN EN 61000-6-2	
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	DIN EN 61000-6-3	
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Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
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Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
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MTTF	[years]	1092
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UL approval	UL approval number	K007
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Mechanical data

Weight	[g]	94
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Housing	tubular	
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Dimensions	[mm]	$\varnothing 21.8 / L = 84.8$
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Material	stainless steel (1.4404 / 316L); PPS; FKM	
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Materials (wetted parts)	stainless steel (1.4404 / 316L); FKM	
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Process connection	threaded connection G 1/4 external thread	
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Probe diameter	[mm]	6
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Installation length EL	[mm]	25
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Remarks

Remarks	The values for accuracy apply to flowing water.	
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	referring to UL: for use on a low voltage circuit with overcurrent protection	
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	in accordance with UL873 tab. 28.1 or $I_{\text{max}} = 100/U_b$ (U_b = voltage of the circuit)	
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Pack quantity	1 pcs.	
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Electrical connection

Connector: 1 x AMP-Superseal



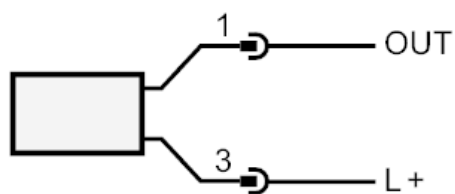
TA5105

Temperature transmitter

TA-025CLEM14-A-ZVG/AM



Connection



OUT: analog output