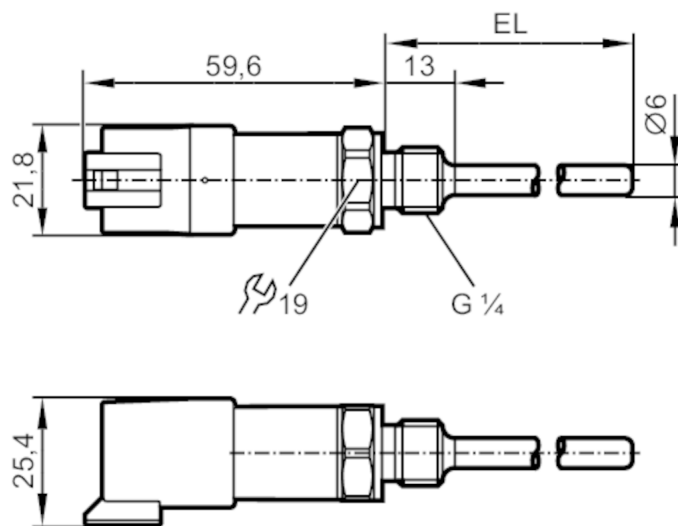


TU4105



Temperature transmitter

TU-025CLEM14-A-ZVG/DE

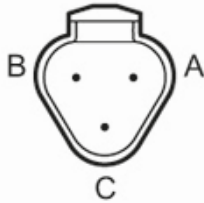


Application		
Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)	
Media	liquids and gases	
Pressure rating	[bar]	400
Electrical data		
Operating voltage	[V]	8...32 DC; ("supply class 2" to cULus)
Current consumption	[mA]	< 30
Protection class		III
Reverse polarity protection		yes
Inputs / outputs		
Number of inputs and outputs	Number of analogue outputs: 1	
Outputs		
Total number of outputs	1	
Output signal	analogue signal	
Number of analogue outputs	1	
Analogue voltage output	[V]	0.5...4.5
Min. load resistance	[Ω]	2000
Short-circuit protection	yes	
Overload protection	yes	
Measuring/setting range		
Measuring range	-50...150 °C	-58...302 °F
Resolution		
Resolution of analogue output	[K]	0.1



Temperature transmitter

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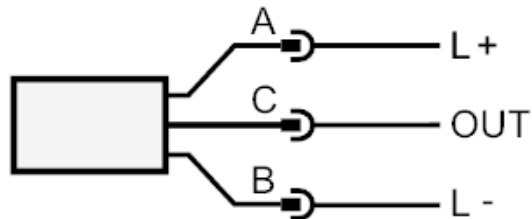
Accuracy / deviations		
Precision analogue output	[K]	$\pm 0,3 + (\pm 0,1 \% \text{ MS})$
Temperature coefficient	[% of the span / 10 K]	0,1; (in case of deviation from the reference condition $25 \pm 5 ^\circ\text{C}$)
Response times		
Dynamic response T05 / T09	[s]	1 / 3; (to DIN EN 60751)
Operating conditions		
Ambient temperature	[°C]	-40...100
Storage temperature	[°C]	-40...100
Protection		IP 68; IP 69K
Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF	[years]	849
UL approval	UL Approval no.	K009
Mechanical data		
Weight	[g]	85
Materials		stainless steel (1.4404 / 316L); PPS; FKM
Materials (wetted parts)		stainless steel (1.4404 / 316L); FKM
Process connection		threaded connection G 1/4 external thread
Probe diameter	[mm]	6
Installation length EL	[mm]	25
Remarks		
Remarks	The values for accuracy apply to flowing water. referring to UL: for use on a low voltage circuit with overcurrent protection in accordance with UL873 tab. 28.1 or $I_{\text{max}} = 100/U_b$ (U_b = voltage of the circuit)	
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x DEUTSCH connector (DT04-3P)		
		



Temperature transmitter

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Connection



OUT: analogue output