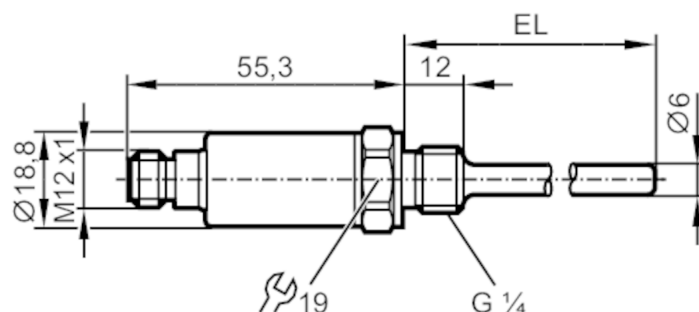


TU3105



Temperature transmitter

TU-025CLEM14-A-ZVG/US



Product characteristics

Number of inputs and outputs	Number of analogue 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]	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
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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	

Accuracy / deviations

Precision analogue output [K]	± 0,3 + (± 0,1 % MS)
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Temperature coefficient	[X22]	0,1; (in case of deviation from the reference condition $25 \pm 5 \text{ }^{\circ}\text{C}$)
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Response times

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

Ambient temperature	[$^{\circ}\text{C}$]	-40...100
Storage temperature	[$^{\circ}\text{C}$]	-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	[ANN]		849
UL approval		UL Approval no.	K008

Mechanical data

Weight	[g]	89.5
Dimensions	[mm]	$\varnothing 18.8$
Materials		stainless steel (1.4404 / 316L); PEI; 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 M12; coding: A



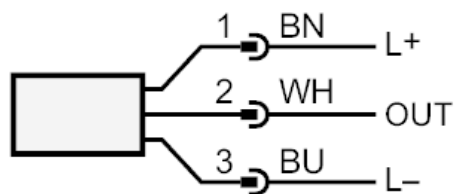
TU3105



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Connection



OUT: analogue output
 colours to DIN EN 60947-5-2