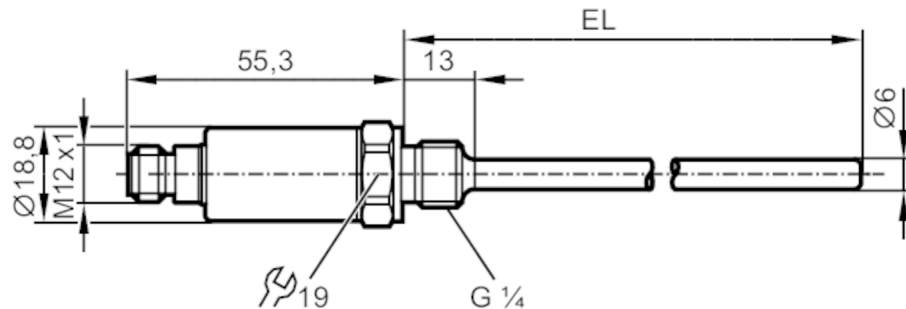


TU3105



Temperature transmitter

TU-025CLEM14-A-ZVG/US



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
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Resolution

Resolution of analogue output [K]	0.1
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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 $25 \pm 5 \text{ °C}$)

Response times

Dynamic response T05 / T09 [s]	1 / 3; (to DIN EN 60751)
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TU3105



Temperature transmitter

TU-025CLEM14-A-ZVG/US

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.	K008
Mechanical data		
Weight	[g]	85
Dimensions	[mm]	Ø 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 $I_{max} = 100/U_b$ (U_b = voltage of the circuit)	
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12		

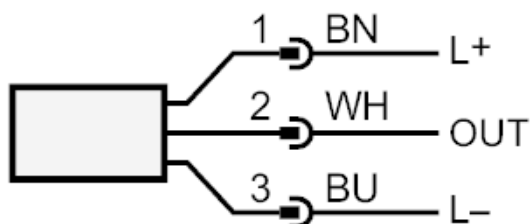
TU3105



Temperature transmitter

TU-025CLEM14-A-ZVG/US

Connection



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