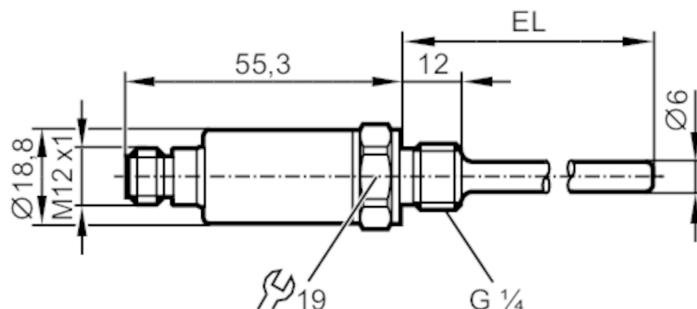


TU3105



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	
------------------------------	-------------------------------	--

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)	
-------------------------------	----------------------	--



Temperature transmitter

TU-025CLEM14-A-ZVG/US

Temperature coefficient [% of the span / 10 K]	0,1; (in case of deviation from the reference condition $25 \pm 5 \text{ }^{\circ}\text{C}$)
---	---

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.	K008

Mechanical data

Weight [g]	89.5
Dimensions [mm]	Ø 18.8
Materials	stainless steel (316L/1.4404); PEI; FKM
Materials (wetted parts)	stainless steel (316L/1.4404); 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; coding: A



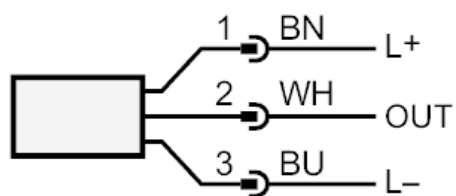
TU3105



Temperature transmitter

TU-025CLEM14-A-ZVG/US

Connection



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