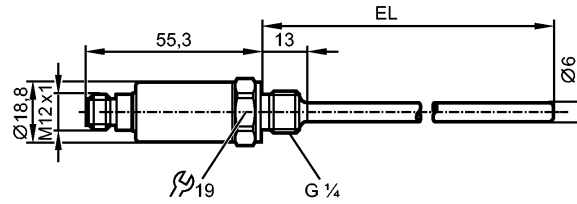


TA3105

TA-025CLEM14-A-ZVG/US

Temperature sensors



Product characteristics

Temperature transmitter	
M12 connector	
Process connection: G 1/4 A	
Installation length EL: 25 mm	
Analog output 4...20 mA	
Measuring range: -50...150 °C / -58...302 °F	
Measuring element: 1 x Pt 1000, to DIN EN 60751, class A	

Application

Application	liquids and gases
Pressure rating [bar]	400

Electrical data

Electrical design	DC
Operating voltage [V]	10...30 DC; cULus - Class 2 source required
Current consumption [mA]	< 30
Protection class	III
Reverse polarity protection	yes

Outputs

Output	Analog output 4...20 mA
Short-circuit protection	yes
Overload protection	yes
Analog output	4...20 mA
Max. load [Ω]	(U _b - 8.5 V) / 21.5 mA; 720 at U _b = 24 V

Measuring / setting range

Measuring range	-50...150 °C	-58...302 °F
Resolution		
Analog output [K]	≤ 0.04	

Accuracy / deviations

Analog output [K]	± 0.3 + (± 0.1 % MS)
Temperature coefficients (in % of the span per 10 K)	0.1 **)

Reaction times

Dynamic response T05 / T09 [s]	1 / 3 *)
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Environment

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

Tests / approvals

TA3105

TA-025CLEM14-A-ZVG/US

Temperature sensors

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]	1092
UL approval number	K005

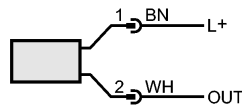
Mechanical data

Process connection	G ¼ A
Materials (wetted parts)	stainless steel 316L / 1.4404; FKM
Probe diameter [mm]	6
Installation length EL [mm]	25
Housing materials	stainless steel (316L / 1.4404); PEI; FKM
Weight [kg]	0.085

Electrical connection

Connection	M12 connector; gold-plated contacts
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Wiring



OUT: Analog output 4...20 mA
Colours to DIN EN 60947-5-2

Remarks

Remarks	<p>*) according to DIN EN 60751 **) In case of deviation from the reference condition 25 ± 5 °C 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).</p>
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Pack quantity [piece]	1
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