

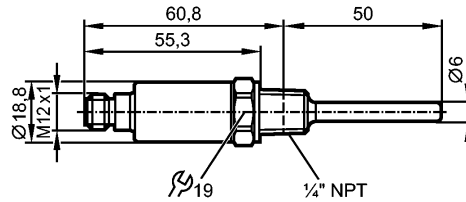


# TA3317

TA-050CLEN14-A-ZVG/US



Temperature sensors



## Product characteristics

Temperature transmitter

M12 connector

Process connection: 1/4" NPT

Installation length EL: 50 mm

Analog output 4...20 mA

Measuring range: 0...100 °C / 32...212 °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: 0...100 °C / 32...212 °F

Resolution:

Analog output [K]:  $\leq 0.04$

## Accuracy / deviations

Analog output [K]:  $\pm 0.3 + (\pm 0.1 \% MS)$

Temperature coefficients (in % of the span per 10 K): 0.1 \*\*)

## Reaction times

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

## Environment

Ambient temperature [°C]: -40...100

Storage temperature [°C]: -40...100

Protection: IP 68 / IP 69K

## Tests / approvals



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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	

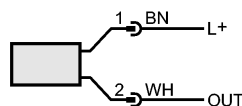
### Mechanical data

Process connection	1/4" NPT	
Materials (wetted parts)	stainless steel 316L / 1.4404	
Probe diameter [mm]	6	
Installation length EL [mm]	50	
Housing materials	stainless steel (316L / 1.4404); PEI; FKM	

### 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 <math>25 \pm 5 \text{ }^\circ\text{C}</math>          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 <math>I_{max} = 100/U_b</math> (<math>U_b</math> = voltage of the circuit).</p>
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Pack quantity [piece]	1
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