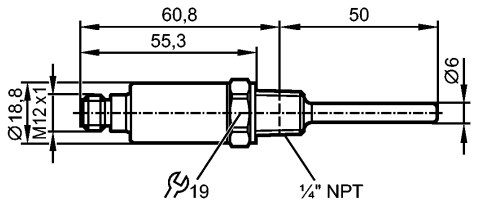
TA3313

TA-050FLEN14-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: -18...149 °C / 0...300 °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]	(Ub - 8.5 V) / 21.5 mA; 720 at Ub = 24 V
Measuring / setting range		
Measuring range		-18...149 °C / 0...300 °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 *)
Environment		
Ambient temperature	[°C]	-40...100
Storage temperature	[°C]	-40...100
Protection		IP 68 / IP 69K
Tests / approvals		

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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	

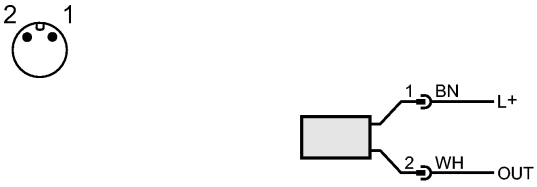
Mechanical data

Process connection		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

Wiring



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

Remarks

Remarks		*) 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 Imax = 100/Ub (Ub = voltage of the circuit).
Pack quantity	[piece]	1