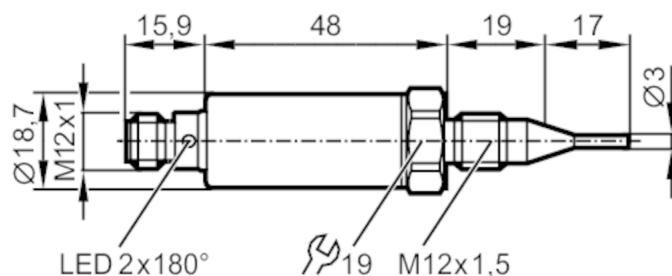


TA1107



Temperature transmitter

TA-017C7EM12- A-ZVG/US



EC 1935/2004

EHEDG Certified



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1	
Measuring range	[°C]	-50...200
Process connection	threaded connection M12 x 1,5 external thread sealing cone	
Installation length EL	[mm]	17

Application

Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)	
Media	liquids and gases	
Pressure rating	100 bar	10 MPa
Vacuum resistance	-1000 mbar	-0.1 MPa

Electrical data

Operating voltage	[V]	18...32 DC; ("supply class 2" to cULus)
Current consumption	[mA]	< 50
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	2

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; IO-Link; (configurable)
Number of analogue outputs	1
Analogue current output	[mA] 4...20
Max. load	[Ω] 250; ((18...19 V); 19...32 V: 300 Ω)
Short-circuit protection	yes
Overload protection	yes

Measuring/setting range

Probe length L	[mm] 10.8
Measuring range	[°C] -50...200
Factory setting	0...100 °C

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Resolution		
Resolution of analogue output	[K]	0.04
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 $25 \pm 5^\circ\text{C}$)
Response times		
Dynamic response T05 / T09	[s]	$< 0,25 / < 1$
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
Operating conditions		
Ambient temperature	[°C]	-25...80
Note on ambient temperature		at medium temperature: $< 160^\circ\text{C}$
		-25...60 °C
		at medium temperature: $< 200^\circ\text{C}$
Storage temperature	[°C]	-40...100
Protection		IP 67; IP 68; IP 69K
Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	10 g (10...2000 Hz)
MTTF	[years]	334
Note on approval	factory certificate available as download at www.factory-certificate.ifm	
UL approval	UL Approval no.	K002
Mechanical data		
Weight	[g]	112
Housing		cylindrical
Dimensions	[mm]	$\varnothing 18,7 / L = 99,9$
Materials		stainless steel (316L/1.4404); PEI; FKM
Materials (wetted parts)		stainless steel (316L/1.4404) electropolished
Tightening torque	[Nm]	20
Process connection		threaded connection M12 x 1,5 external thread sealing cone
Surface characteristics Ra/Rz of the wetted parts		Ra: $< 0,8$
Probe diameter	[mm]	3
Installation length EL	[mm]	17
Remarks		
Remarks	MS = set measuring span	
	The values for accuracy apply to flowing water.	
Pack quantity	1 pcs.	

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Electrical connection

Connector: 1 x M12; coding: A



Connection

