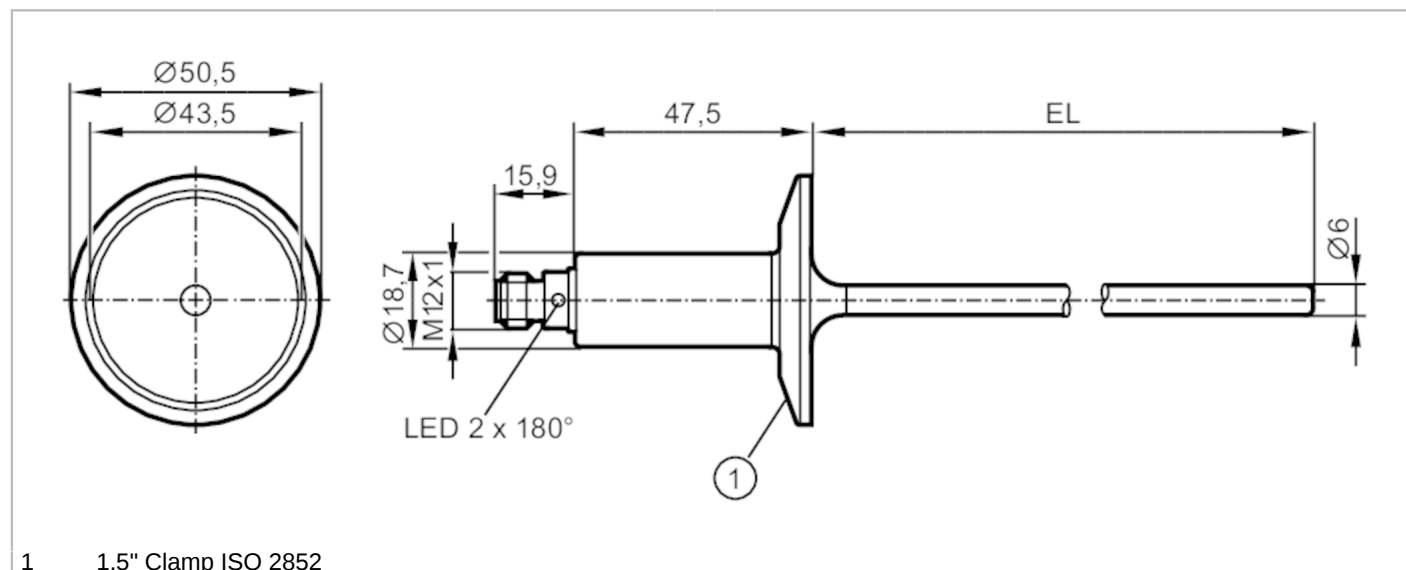


TA2842



Temperature transmitter

TA-150CLEC01- - /US



1 1.5" Clamp ISO 2852



EC 1935/2004

EHEDG Certified

FCM



IO-Link



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1
Measuring range [°C]	-50...200
Communication interface	IO-Link
Process connection	Clamp DN25...DN40 (1...1,5") DIN 32676 (ISO 2852)
Installation length EL [mm]	150

Application

Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)
Media	liquids and gases
Pressure rating [bar]	100
Vacuum resistance [mbar]	-1000
MAWP (for applications according to CRN) [bar]	55

Electrical data

Operating voltage [V]	18...32 DC; (cULus - Class 2 source required)
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 analog outputs: 1
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Outputs

Total number of outputs	1
Output signal	analog signal; IO-Link; (configurable)
Number of analog outputs	1
Analog current output [mA]	4...20
Max. load [Ω]	250; ((18...19 V); 19...32 V: 300 Ω)

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Short-circuit protection	yes
Overload protection	yes
Measuring/setting range	
Measuring range [°C]	-50...200
Factory setting	0...200 °C
Resolution	
Resolution of analog output [K]	0.04
Accuracy / deviations	
Precision analog 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 $25 \pm 5 \text{ °C}$)
Reaction times	
Dynamic response T05 / T09 [s]	< 0,5 / < 2
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 °C
	-25...60 °C
	at medium temperature: < 200 °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]	232
Note on approval	Factory certificate available as download at www.factory-certificate.ifm
UL approval	UL approval number K002
Mechanical data	
Weight [g]	318.5
Dimensions [mm]	Ø 18.71
Material	stainless steel (1.4404 / 316L); PEI; FKM
Materials (wetted parts)	stainless steel (1.4404 / 316L) electropolished
Process connection	Clamp DN25...DN40 (1...1,5") DIN 32676 (ISO 2852)
Surface characteristics Ra/Rz of the wetted parts	Ra: < 0.8
Probe diameter [mm]	6
Installation length EL [mm]	150

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Remarks	
Remarks	MS = set measuring span The values for accuracy apply to flowing water.
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection

