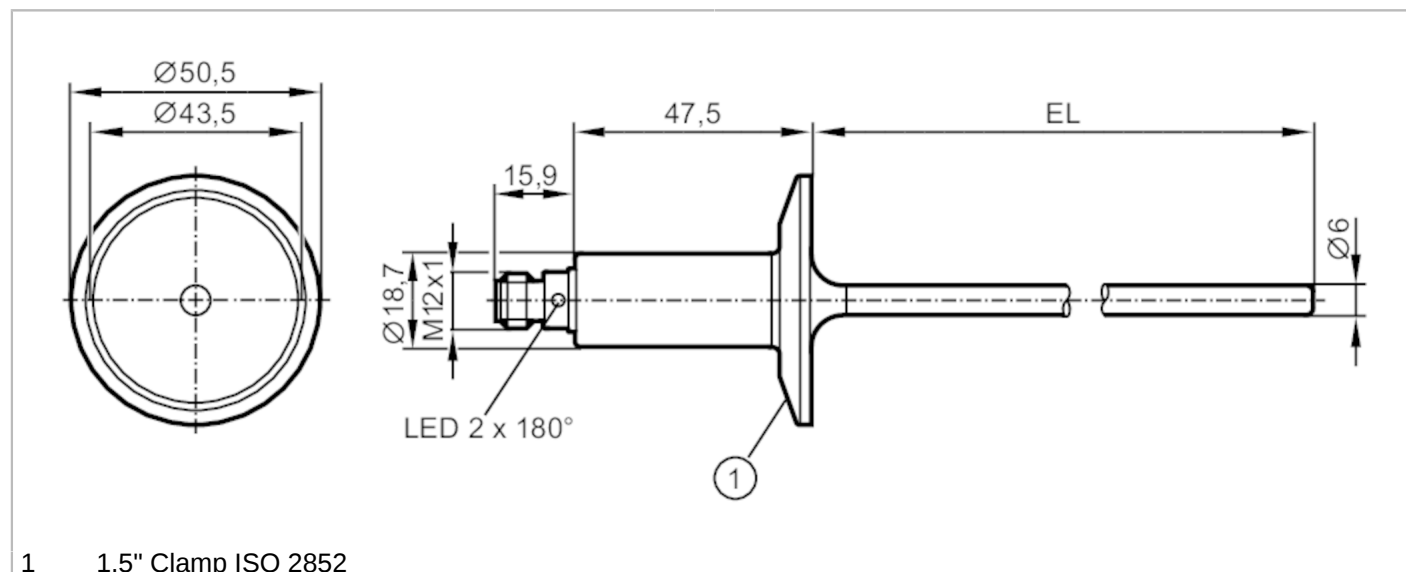


TA2812



Temperature transmitter

TA-050CLEC01- - /US



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

TA-050CLEC01- - /US

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)
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]		± 0,3 + (± 0,1 % MS)
Temperature coefficient [% of the span / 10 K]		0,1; (In case of deviation from the reference condition 25 ± 5 °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

TA2812



Temperature transmitter

TA-050CLEC01-- /US

Mechanical data

Weight	[g]	229.6
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]	50

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

