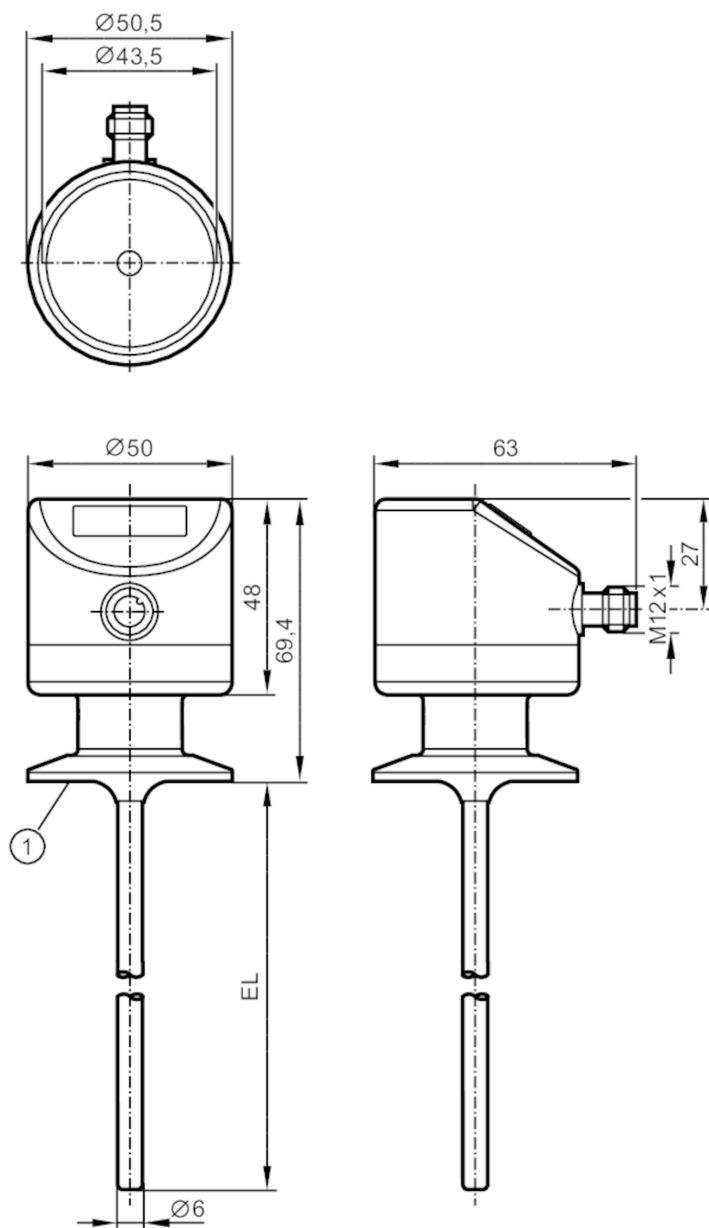


TD2811



Temperature transmitter with display

TD-050CFEC01-A-ZVG/US



1 1.5" Clamp ISO 2852
EL = installation length



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1	
Measuring range	-50...150 °C	-58...302 °F
Process connection	Clamp DN25...DN40 (1...1,5") DIN 32676 (ISO 2852)	
Installation length EL [mm]	50	



Temperature transmitter with display

TD-050CFEC01-A-ZVG/US

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]	60	
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	
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]	300	
Short-circuit protection	yes	
Overload protection	yes	
Measuring/setting range		
Measuring range	-50...150 °C	-58...302 °F
Factory setting	-10...150 °C	
Resolution		
Resolution of analogue output [K]	0.04	
Resolution of display [K]	0.1	
Accuracy / deviations		
Precision analogue 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 °C)	
Response times		
Dynamic response T05 / T09 [s]	1 / 3	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	

TD2811



Temperature transmitter with display

TD-050CFEC01-A-ZVG/US

Operating conditions

Ambient temperature	[°C]	-25...80
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]	405	
Note on approval		factory certificate available as download at www.factory-certificate.ifm	
UL approval		UL Approval no.	K001

Mechanical data

Weight	[g]	334
Materials		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

Displays / operating elements

Display		7-segment LED display, 4-digit display unit / status, °C / °F
---------	--	---

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



TD2811



Temperature transmitter with display

TD-050CFEC01-A-ZVG/US

Connection

