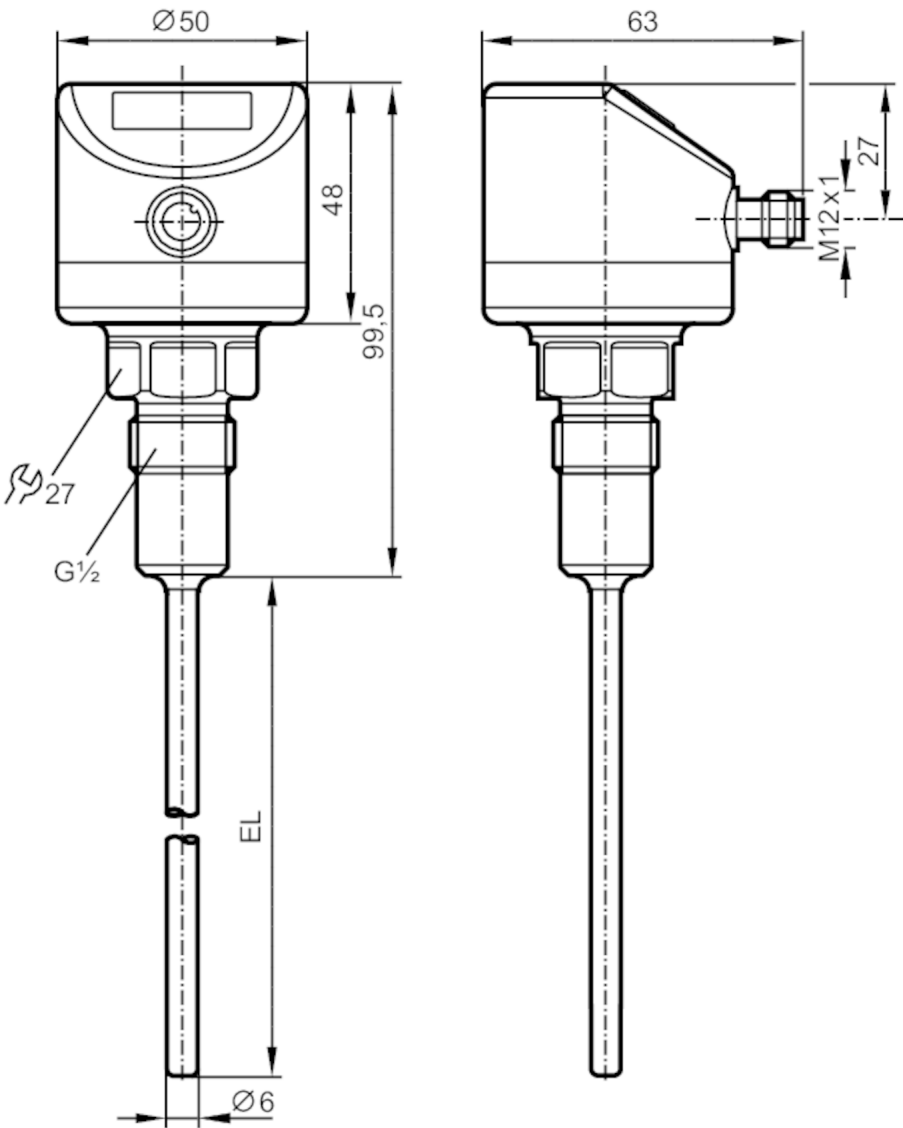


TD2501



Temperature transmitter with display

TD-030CFER12-A-ZVG/US



EL = installation length



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1	
Measuring range	-50...150 °C	-58...302 °F
Communication interface	IO-Link	
Process connection	threaded connection G 1/2 sealing cone	
Installation length EL [mm]	30	

Application

Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)	
Media	liquids and gases	
Pressure rating [bar]	160	
Vacuum resistance [mbar]	-1000	

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MAWP (for applications according to CRN)	[bar]	160
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	[X22]	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
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	[ANN]	405

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Note on approval	factory certificate available as download at www.factory-certificate.ifm	
UL approval	UL Approval no.	K001

Mechanical data

Weight	[g]	343.5
Materials	stainless steel (1.4404 / 316L); PEI; FKM	
Materials (wetted parts)	stainless steel (1.4404 / 316L) electropolished	
Tightening torque	[Nm]	30...50
Process connection	threaded connection G 1/2 sealing cone	
Surface characteristics Ra/Rz of the wetted parts	Ra: < 0.8	
Probe diameter	[mm]	6
Installation length EL	[mm]	30

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



Connection

