



Temperature sensor with process connection

TM-050KFBN12-

/US/



Product characteristics

Measuring range	-40...150 °C	-40...302 °F
Process connection	threaded connection 1/2" NPT external thread	
Installation length EL [mm]	50	

Application

Special feature	Gold-plated contacts	
Measuring element	1 x Pt 100; (to DIN EN 60751, class A)	
Media	liquids and gases	
Pressure rating [bar]	160	
Pressure rating [MPa]	16	
Minimum installation depth [mm]	15	

Electrical data

Protection class	III
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Measuring/setting range

Probe length L	[mm]	42	
Measuring range		-40...150 °C	-40...302 °F

Accuracy / deviations

Accuracy [K]	$\pm (0,15 K + 0,002 x t)$
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Response times

Dynamic response T05 / T09 [s]	1 / 3; (to DIN EN 60751)
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Operating conditions

Ambient temperature [°C]	-25...80
Storage temperature [°C]	-40...100
Protection	IP 68; IP 69K

Tests / approvals

Shock resistance	DIN EN 60068-2-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	10 g (10...2000 Hz)
MTTF [years]	22831	

TM4311



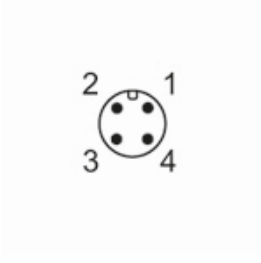
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Mechanical data		
Weight	[g]	138.5
Housing		cylindrical
Dimensions	[mm]	Ø 30 / L = 85
Materials		stainless steel (316L/1.4404)
Materials (wetted parts)		stainless steel (316L/1.4404)
Process connection		threaded connection 1/2" NPT external thread
Probe diameter	[mm]	6
Installation length EL	[mm]	50
Remarks		
Remarks		operating voltage "supply class 2" according to cULus The values for accuracy apply to flowing water.
Pack quantity		1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

