

TM4311



Temperature sensor with process connection

TM-050KFBN12-

/US/



Application

Measuring element	1 x Pt 100; (to DIN EN 60751, class A)	
Media	liquids and gases	
Pressure rating [bar]	160	
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]	$\pm (0,15 \text{ K} + 0,002 \times t)$	
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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 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	10 g (10...2000 Hz)
MTTF [years]	22831	

Mechanical data

Weight [g]	134	
Materials	stainless steel (1.4404 / 316L)	
Materials (wetted parts)	stainless steel (1.4404 / 316L)	
Process connection	threaded connection 1/2" NPT	
Probe diameter [mm]	6	
Installation length EL [mm]	50	

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Remarks

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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; Contacts: gold-plated



Connection

