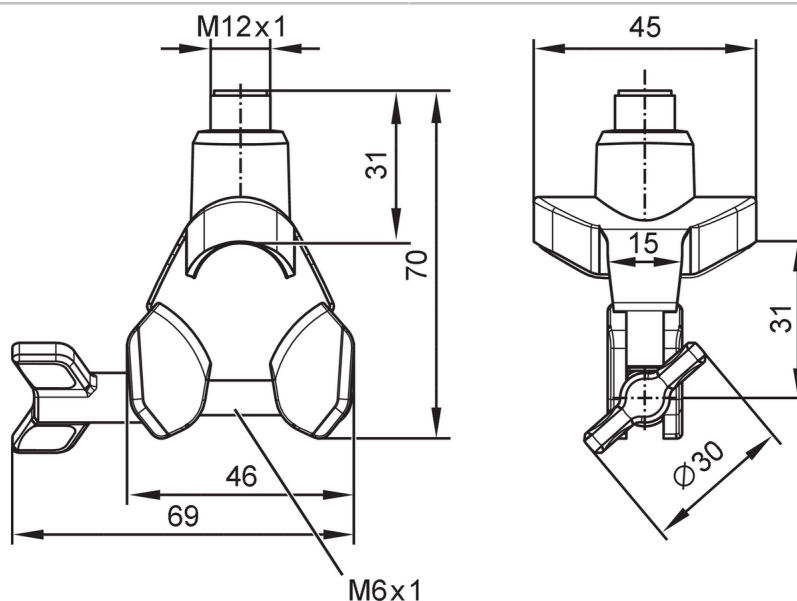


TSM301



Passive surface temperature probe

TSM020K2PCXX/US/



Product characteristics

Measuring range	-25...160 °C	-13...320 °F
Process connection	bolt-on sensor DN20 (Ø 21...24 mm)	

Application

Special feature	gold-plated contacts
Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)
Installation	Passive surface temperature probe for solid bodies; clamp-on solution

Electrical data

Protection class	III
Overtoltage category	II

Measuring/setting range

Measuring range	-25...160 °C	-13...320 °F
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Accuracy / deviations

Accuracy	[K]	$\pm (0,15 \text{ K} + 0,002 \times T)$; (ambient temperature influence on the accuracy: $0,025 \times (T_a - T)$)
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Reaction times

Dynamic response T05 / T09	[s]	7,5 / 25; (reference values for moving water : (> 0,4 m/s))
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Operating conditions

Ambient temperature	[°C]	-25...80
Max. relative air humidity	[%]	90; (non condensing)
Max. height above sea level	[m]	2000
Protection		IP 69K
Pollution degree		3

Tests / approvals

MTTF	[years]	22831
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TSM301



Passive surface temperature probe

TSM020K2PCXX/US/

Mechanical data		
Weight	[g]	134.2
Design		Surface temperature probe
Dimensions	[mm]	70 x 69 x 45
Material		Mounting clamp: stainless steel (1.4404 / 316L); housing: PPSU; Gasket: FKM
Process connection		bolt-on sensor DN20 (Ø 21...24 mm)

Remarks	
Remarks	Ta = Ambient temperature T = Process temperature
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated



Connection

