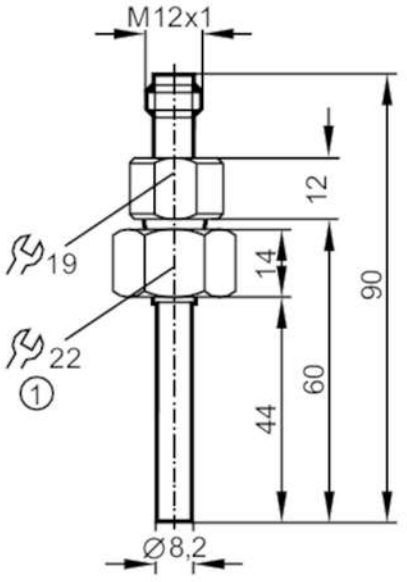
TM9950

Temperature sensor with process connection

TM-045-BEM18 /US



1 internal thread M18 x 1.5

Product characteristics			
Measuring range		-40...125 °C	-40...257 °F
Process connection		threaded connection M18 x 1,5 internal thread	
Installation length EL	[mm]	60	
Application			
Special feature		Gold-plated contacts	
Measuring element		1 x Pt 100; (to DIN EN 60751, class B)	
Media		liquids and gases	
Pressure rating		300 bar	30 MPa
Minimum installation depth	[mm]	15	
Electrical data			
Protection class		III	
Measuring/setting range			
Probe length L	[mm]	44	
Measuring range		-40...125 °C	-40...257 °F
Accuracy / deviations			
Accuracy	[K]	± (0,30 K + 0,005 x|t|)	
Response times			
Dynamic response T05 / T09	[s]	1 / 3; (to DIN EN 60751)	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Storage temperature	[°C]	-40...100	
Protection		IP 68; IP 69K	
Tests / approvals			
MTTF	[years]	22831	

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Mechanical data		
Weight	[g]	81.5
Housing		cylindrical
Materials		stainless steel (316L/1.4404)
Materials (wetted parts)		stainless steel (316L/1.4404)
Process connection		threaded connection M18 x 1,5 internal thread
Probe diameter	[mm]	8.2
Installation length EL	[mm]	60

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

