efector600°

TM4591

Probe diameter

Probe length L

Installation length

Housing materials

Tightening torque

[mm]

[mm]

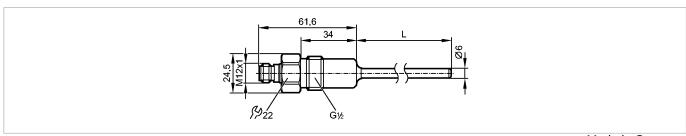
[mm]

[Nm]

30...50

TM-020KFER12- /US/







Made in Germany

LISTED CERTIFIED FINAL			
Product characteristics			
Temperature sensor for connection to a control monitor with a max. operating voltage of 32 V			
Connector			
Process connection: G½ with sealing cone			
Installation length: 20 mm			
Gold-plated contacts			
Connection to control monitor TP / TR			
Measuring range: -40150 °C / -40302 °F			
Measuring element: 1 x Pt 100, to DIN EN 60751, class A			
Application			
Application	liquids and gases		
Minimum installation depth [m	n]15		
Electrical data			
Connection to control monitor	TP/TR		
Protection class	III		
Measuring / setting range			
Measuring range [°C/	-40150 / -40302		
Accuracy / deviations			
Accuracy	± (0.15 K + 0.002 x t)		
Reaction times			
Dynamic response T05 / T09	[s] 1/3*)		
Environment			
Pressure rating [b	160; **)		
Ambient temperature [C] -2580		
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 (102000 Hz)		
MTTF [Yea	22831.05		
Mechanical data			
Process connection	G½ with sealing cone		
Materials (wetted parts)	stainless steel 316L / 1.4404; surface characteristics: Ra < 0.8 / electropolishe		

6

20

20

stainless steel 316L / 1.4404

efector500°

TM4591

Pack quantity

TM-020KFER12- /US/

[piece]



Temperature sensors

Weight	[kg]	0.132
Electrical connection		
Connection		M12 connector; Gold-plated contacts
Wiring 2 3 4	*	
Remarks		
Remarks		cULus - Class 2 source required *) according to DIN EN 60751 **) only applies to the sensor; for installation in adapters the indications in the adapter data sheet shall apply The values for accuracy apply to flowing water.

 $ifm\ electronic\ gmbh\ \bullet\ Friedrichstraße\ 1\ \bullet\ 45128\ Essen\ -\ We\ reserve\ the\ right\ to\ make\ technical\ alterations\ without\ prior\ notice.\ -\ GB\ -\ TM4591\ -\ 21.11.2011$