

Temperature sensors

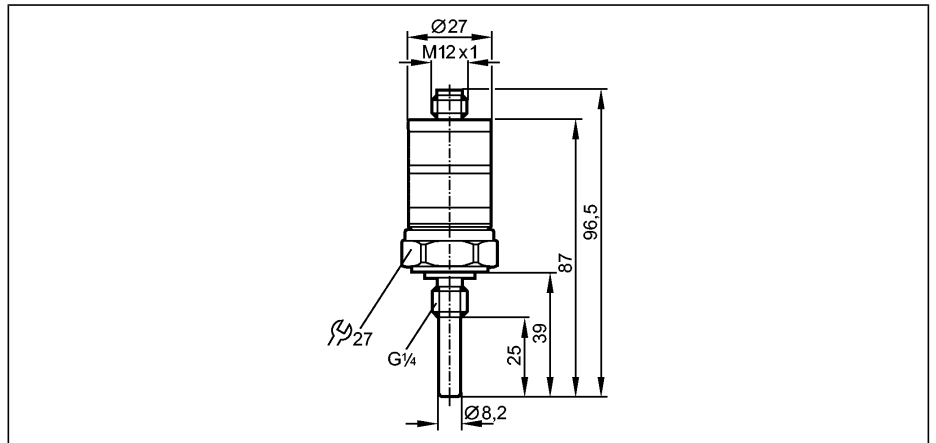
TK7130

Electronic temperature sensor
TK

Process connection:
G $\frac{1}{4}$ A

2 switching outputs
Hysteresis
5 K
fixed

Measuring range
-25...140 °C / -13...284 °F



Made in Germany

Application
Electrical design
Output
Probe length L [mm]

liquids and gases
DC PNP
2 x normally open
39

Operating voltage	[V]
Current rating	[mA]
Short-circuit protection	
Reverse polarity protection	
Overload protection	
Voltage drop	[V]
Current consumption	[mA]
Pressure rating	[bar]
Setting range	
Set point, SP	[°C/°F]
Adjustment of the switch point	
Accuracy	
Setting accuracy	[K]
Repeatability	[K]
Temperature drift (/ 10 K)	
Power-on delay time	[s]
Measuring element	
Dynamic response	T05 / T09 [s]
Minimum installation depth	[mm]
Medium temperature	[°C]

9.6...32 ¹⁾
500
pulsed
yes
yes
< 2
< 30
300
-20...140 / -4...284
setting rings
± 3
± 0.1
0.1
0.5
1 x Pt 1000, to DIN EN 60751, class B
1 / 3 [*])
15
-25...125 (145 max. 1 h)

TK7130

Ambient temperature	[°C]	-25...70
Storage temperature	[°C]	-40...100
Protection		IP 67, III
Shock resistance		DIN IEC 68-2-27: 50 g (11 ms)
Vibration resistance		DIN EN 60068-2-6: 20 g (10...2000 Hz)
EMC		EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-6 HF conducted: 10 V
MTTF	[Years]	640
Housing materials		stainless steel 316L / 1.4404; PC (Makrolon); PBT (Pocan); FPM (Viton)
Materials (wetted parts)		stainless steel 316L / 1.4404; FPM (Viton)
Display		Switching status 2 x LED yellow
Connection		M12 connector; gold-plated contacts
Weight	[kg]	0.105
Remarks		1) operating voltage "supply class 2" to cULus. *) according to DIN EN 60751 The values for accuracy apply to flowing water.

Wiring

