



Process sensors

Temperature sensor with easy dial setting



Temperature sensors



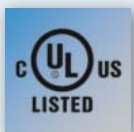
Measuring range -25...140 °C

Two switching outputs

Easy adjustment via two setting rings for optimum read-out

Mechanical lock to prevent accidental adjustment

Accuracy: ± 3 K



Convenient and reliable setting

The TK type temperature sensors are sensors to monitor liquids and gases with switch points that can be set intuitively via two radial setting rings. Wherever simple solutions are needed, the TK series sensors are a real alternative. Complicated parameter setting via software is not necessary. The requested temperature is set via the setting rings allowing optimum read-out without your installation having to be in operation. In addition, the switching states are clearly displayed via LEDs.

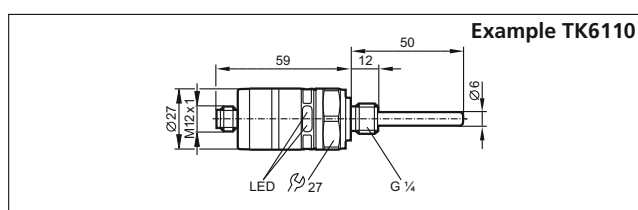
Versions

The sensors are available with a setpoint and a reset point (TK6xxx) or two switch points with a fixed hysteresis (TK7xxx). The TK series temperature sensors are always the optimum choice for quick and simple use.



Measuring range [°C / °F]	Process connection	Installation length [mm]	Switching hysteresis [K]	Pressure rating [bar]	Order no.
M12 connector, gold-plated contacts · output function normally open / normally closed complementary					
-25...140 / -13...284	G 1/4	50	adjustable	400	TK6110
-25...140 / -13...284	1/4 NPT	50	adjustable	400	TK6310
M12 connector, gold-plated contacts · output function 2 x normally open					
-25...140 / -13...284	G 1/4	50	5 (fixed)	400	TK7110
M12 connector, gold-plated contacts · output function 1 x normally open / 1 x normally closed					
-25...140 / -13...284	G 1/2	250	5 (fixed)	300	TK7460

Dimensions



Accessories

Type	Description	Order no.
	Protective cover with lead seal option for TK type temperature sensors, PP transparent	E30094
	Adapter, G 1/4 – G 1/2 high-grade stainless steel (316Ti/1.4571)	E30135
	Flange adapter G1/4, stainless steel (303/1.4305)	E30063


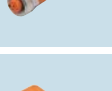



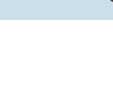
Thermowells

Device connection	Installation length [mm]		Order no.
	Sensor	Thermowell	
Screw-in thermowell, process connection G 1/4			
G 1/4	50	27	E37700
Screw-in thermowell, process connection G 1/2			
G 1/2	250	224	E37640

Further technical data

Operating voltage	[V DC]	9.6...32
Current rating	[mA]	500
Dynamic response T05 / T09	[s]	1 / 3
Protection rating, protection class		IP 67 / III
Accuracy		
Setting accuracy	[K]	± 3
Temperature influence (per 10 K)		0.1
Repeatability	[K]	± 0.1
Ambient temperature	[°C]	-40...70
Shock resistance		50 g
Vibration resistance		20 g
Housing materials		high-grade stainless steel (316L/1.4404), PC (Makrolon), PBT (Pocan), FPM (Viton)
Materials wetted parts		high-grade stainless steel (316L/1.4404), FPM (Viton)
Connection		M12 connector

Connection technology

Type	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVC001
	Socket, M12, 5 m black, PUR cable	EVC002
	Socket, M12, 2 m black, PUR cable	EVC004
	Socket, M12, 5 m black, PUR cable	EVC005
	Socket, M12, 2 m black, PUR cable, LED	EVC007
	Socket, M12, 5 m black, PUR cable, LED	EVC008