



Intuitive handling: Temperature sensors from ifm.

Fit – set – that’s it!



- Easy switch point setting using two setting rings for optimum readability.
- Excellent response time: T05 = 1 s and T09 = 3 s.
- Mechanical locking prevents inadvertent manipulation.
- Switch points freely adjustable from -25 °C to 140 °C.

Easy-to-use

IP 67

Gold-plated contacts

Vibration and shock resistant

“No need for setting by an expert.”

The first switching temperature sensor with intuitive handling, combined with an excellent response time and a compact housing.

Little installation complexity and maximum reliability

The easy handling via two radial setting rings on the sensor enables quick and precise setting of the switch points for the users, also without system temperature being applied. Due to the possible mechanical locking inadvertent manipulation is excluded. The protective cap, which can be obtained as an option, ensures protection against tampering.





fluid sensors and diagnostic systems

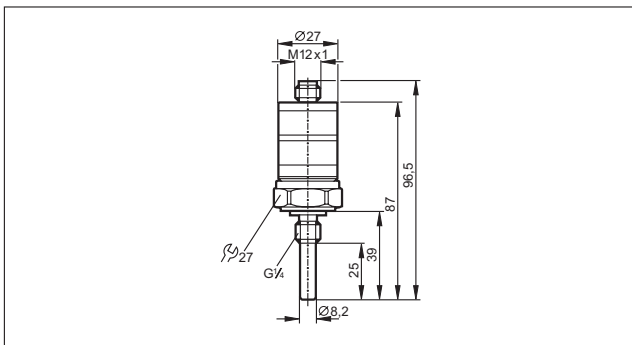
position sensors and object recognition

bus, identification and control systems

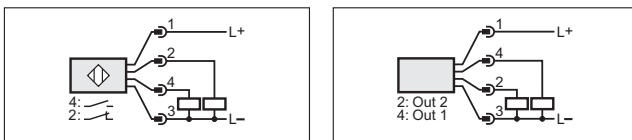
Temperature sensor TK
Setting of the switch points using setting rings on the sensor
G 1/4 process connection, probe length 25 mm

Measuring range [°C / °F]	Switching hysteresis [K]	Response dynamics T05 / T09 [s]	Protection	Perm. overload pressure [bar]	Order no.
M12 connector, gold-plated contacts · output function complementary 					
-25...140 / -13...284	adjustable	1 / 3	IP 67, III	300	TK6130
M12 connector, gold-plated contacts · output function 2 x 					
-25...140 / -13...284	5 (fix)	1 / 3	IP 67, III	300	TK7130

Dimensions



Wiring diagram



Wiring diagram TK6130

Wiring diagram TK7130

• Not only an alternative to mechanical switches

The switching temperature sensor of the TK series has more to offer. Using mechanical switches the user must often “search” for the switch point when the system temperature is applied.

Things are much easier using the TK temperature sensor: The requested switch point can be set using the setting rings without system temperature being applied and can be directly read on site. This saves time and costs.

• The correct sensor for each application

As an option, the TK is available with adjustable set and reset points or two switch points with fixed hysteresis.

• Long life and accuracy

The pre-selected Pt1000 sensors ensure the long life and accuracy of the sensor. Furthermore, the TK temperature sensor has a very good repeatability of ± 0.1 K.


• Everything at a glance

Two clearly visible LEDs indicating the switching status and readiness for operation provide the required transparency.




Other technical data

Temperature sensor TK6130, TK7130		
Operating voltage	[V]	9.6...32
Current rating	[mA]	2 x 500
Accuracy		
Setting accuracy	[K]	± 3
Temperature influence (per 10K)	[%]	0.1
Repeatability	[K]	± 0.1
Operating temperature	[°C]	-25...70
Measuring element		Pt1000 / Class B
Shock resistance		50 g
Vibration resistance		20 g
Housing materials		high-grade stainless steel (316S12), PC (Makrolon), PBT (Pocan), FPM (Viton)
Materials (wetted parts)		high-grade stainless steel (316S12)

Accessories

Type	Description	Order no.
	Protective cover	E30094

Connectors and splitter boxes

Type	Description	Order no.
	M12 socket, 2 m black, PUR cable	EVC001
	M12 socket, 2 m black, PUR cable	EVC004
	M12 socket, 2 m black, PUR cable, LED	EVC007

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