

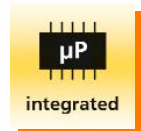
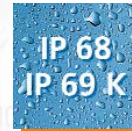


Temperature transmitter with excellent response time.



Compact temperature sensors for different applications.

- Measuring range of -10...150 °C, -50...150 °C, 0...140 °C, 0...100 °C.
- Excellent response time: T05 = 1 s or T09 = 3 s.
- High mechanical stability.
- IP 68 and IP 69K protection ratings.



One unit – a wide range of options

The TA type temperature sensor is a universal transmitter with a 4...20 mA current output. A high level of accuracy is achieved using a class A accuracy Pt 1000 sensor and factory calibration.

In addition, ifm's tried and tested film technology used here ensures excellent dynamic response times. So this sensor is suited for all highly precise and rapid processes.



TA integrated in a hydraulic application

fluid sensors and diagnostic systems

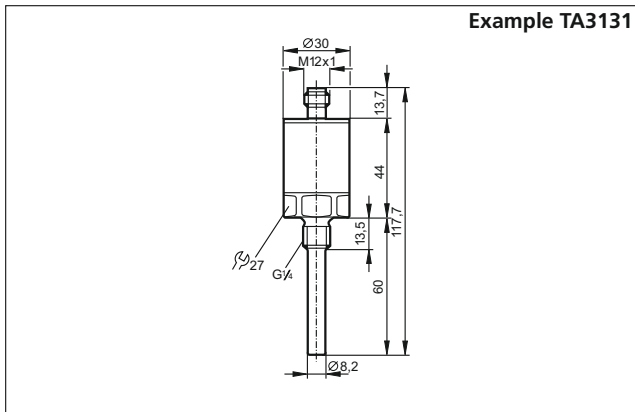
position sensors and object recognition

bus, identification and control systems

Measuring range [°C / °F]	Process connection	Probe length [mm]	Accuracy [K]	Pressure resistance [bar]	Order no.
M12 connector · output function 4...20 mA					
0...140 / 32...284	G 1/4	46.50	± 0.5	400	TA3130
-50...150 / -58...302	G 1/4	46.50	± 0.4	400	TA3131
-50...150 / -58...302	G 1/4	186.50	± 0.4	400	TA3171
-10...150 / 14...302	Ø 6 mm	123	± 0.3	50*	TA3231
-17.8...148.9 / 0...300	Ø 6 mm	123	± 0.4	50*	TA3233
0...100 / 32...212	Ø 6 mm	123	± 0.3	50*	TA3237
-17.8...148.9 / 0...300	1/4" NPT	46.50	± 0.4	300	TA3333
0...100 / 32...212	1/4" NPT	46.50	± 0.3	300	TA3337

*) only applies to the sensor; when mounted in adapters the specifications of the adapter data sheet apply.



Dimensions







**Common technical data
Type TA**

Operating voltage	[V DC]	10...30
Reverse polarity / overload protection		• / •
Measuring element		Pt1000, class A
Response dynamics T05 / T09		1 s / 3 s
Protection		IP 68 / IP 69K, III
Materials (wetted parts)		high-grade stainless steel
Minimum immersion depth	[mm]	15

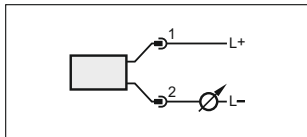
Accessories

Type	Description	Order no.
	Welding clamp adapter, ball, Ø 6 mm, high-grade stainless steel permissible overpressure 160 bar	E30108
	Progressive ring fitting, Ø 6 mm, G 1/2, high-grade stainless steel permissible overpressure 50 bar	E30047

Sockets (extract)

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

Wiring diagrams



Advantages and customer benefits

• **Flexible mounting**

For ideal integration of the sensor into the process, different process connections and probe lengths are available. The tip diameter of 6 mm of the TA323x sensors allows mounting using common clamp or progressive ring fittings.

This allows flexible immersion depth.

• **High protection rating and mechanical stability**

The completely sealed and welded housing ensures not only protection rating IP 68 / IP 69 K but also high mechanical stability.