ifm electronic

Fluid sensors and diagnostic systems

Pt100 / Pt1000 bolt-on and screw-in sensors.

Pt100 / Pt1000 bolt-on sensors for different applications.

- **Flexible mounting**
- **Bolt-on sensors for M6 and M10 screws.**
- **Screw-in sensors in M5 and M6.**
- **Temperature measurement of -30...180 °C.**

Pt100 Pt1000 | IP 67 | Ex

For complex applications with different requirements

Every application has its own requirements as regards the temperature sensors to be used. Criteria such as housing material or mechanical design are as important as the connection to control monitors, plcs or AS-i modules. The housings and materials of the new screw-in and bolt-on sensors of ifm electronic have been designed for a wide range of applications.

TS522A and TS502A for ATEX applications

In addition, the bolt-on sensors TS522A and TS502A have the ATEX approval to group II, category 3D/3G.

fluid sensors and diagnostic systems

position sensors and object recognition

bus, identification and control systems

Fluid sensors and diagnostic systems

Measuring range [°C]	Type	Housing material	Cable material, cable length [m]	Connection	Measuring element	ATEX category	Order no.
Bolt-on sensors							
-25...90	12 x 32 for M6	Stainless steel 305/308/1.4303*	PUR, 2	M12	Pt100	–	**TS2229**
-20...115	10 x 10 x 42 for M6	high-grade stainless steel 316L/1.4404	silicone, 5	4-wire wirable	Pt100	II 3D / 3G	**TS522A**
-20...115	10 x 18 x 48 for M10	high-grade stainless steel 320S17/1.4571	silicone, 5	4-wire wirable	Pt1000	II 3D / 3G	**TS502A**

* Sensor housing, bolt-on sensor: nickel-plated Cu

Measuring range [°C]	Type	Housing material	Cable material, cable length [m]	Connection	Measuring element	ATEX category	Order no.
Screw-in sensors							
-30...180	M6	high-grade stainless steel 316L/1.4404	silicone, 2	M12	Pt100	–	**TS2659**
-30...180	M5	high-grade stainless steel 316L/1.4404	silicone, 10	M12	Pt100	–	**TS0759**
-30...180	M5	high-grade stainless steel 316L/1.4404	silicone, 2	M12	Pt100	–	**TS2759**
-30...180	M5	high-grade stainless steel 316L/1.4404	silicone, 4	4-wire wirable	Pt100	–	**TS4759**
-30...90	M5	high-grade stainless steel 316L/1.4404	PUR, 2	M12	Pt100	–	**TS2789**

Dimensions

Example TS2229

51
35
14
M12x1
49,5
12
Ø6,5
1,8
8,7
17

Example TS2759

58
25,7
8
M12x1
Ø4
M5
8
5,4
①

Sockets (extract)

Type	Description	Order no.
	Socket, M12, 2 m orange, PVC cable	**EVT067**
	Socket, M12, 5 m orange, PVC cable	**EVT004**
	Socket, M12, 2 m black, PUR cable	**EVC004**
	Socket, M12, 5 m black, PUR cable	**EVC005**
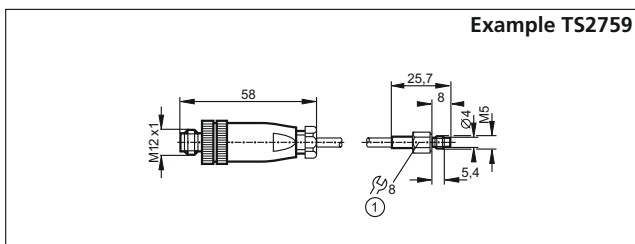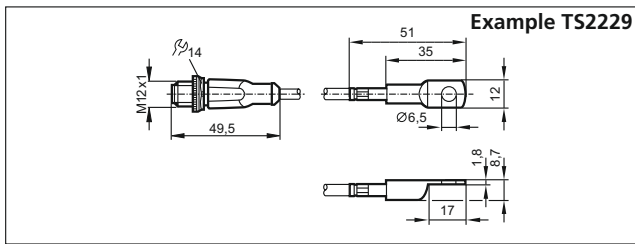
Control monitor

Description	Order no.
Control monitor, 1 x analogue output, 1 x PNP/NPN	**TR2432**
Control monitor, 2 x PNP/NPN	**TR7432**
Measured signal converter, Pt100 / Pt1000 in 4...20 mA, scaling 0...100 °C	**TP3237**
Measured signal converter, Pt100 / Pt1000 in 4...20 mA, scaling -50...150 °C	**TP3231**
Measured signal converter, Pt100 / Pt1000 in 4...20 mA, scaling -50...300 °C	**TP3232**
Measured signal converter, Pt100 / Pt1000 in 4...20 mA, scaling 0...300 °F	**TP3233**

Connection cables (extract)

Type	Description	Order no.
	M12 jumper, 2 m orange, PVC cable	**EVT043**
	M12 jumper, 5 m orange, PVC cable	**EVT050**
	M12 jumper, 2 m black, PUR cable	**EVC013**
	M12 jumper, 5 m black, PUR cable	**EVC034**