

Great value for money – the TS series temperature sensors



Screw-in, bolt-on and cylindrical Pt100 temperature sensors

- Cylindrical design Ø 6 mm or Ø 10 mm
- M5 screw-in sensor, bolt-on sensor for M6 screws
- Simple and 100 % sealed connection via ecolink M12 connector
- PUR cable for lower cost
- Different cable lengths from 2 to 5 m



Suits many different requirements

Every application has its own requirements as regards the temperature sensors to be used. Criteria such as basic and housing material or design are as important as the connection to control monitors.

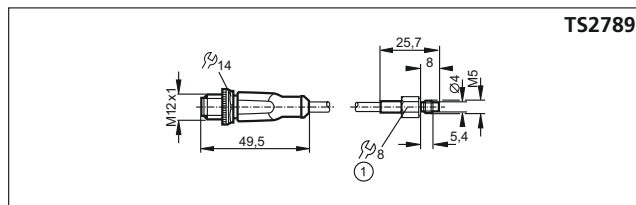
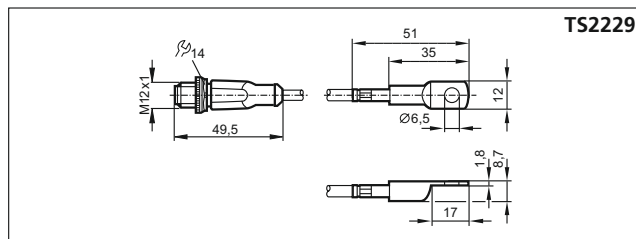
The new ifm electronic screw-in and bolt-on sensors are designed to cover a large range of applications in various industries (machine tools, etc.).



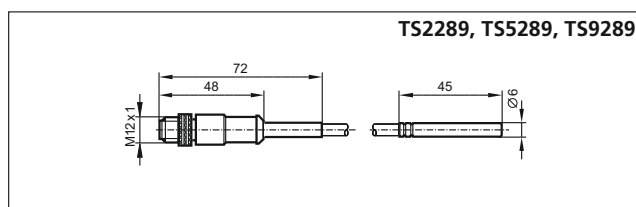
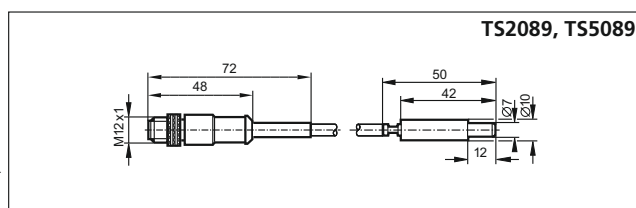
Pt100 temperature sensor attached to an oil tank to monitor the housing temperature.

Type	Measuring range [°C]	Housing material	Connection	Response dynamics T05 / T09 [s]	Order no.
Measuring element Pt100					
Bolt-on sensor 12 x 35 for M6	-25...90	stainless steel (1.4303 / 304)	PUR cable / 2 m	9 / 15	TS2229
Screw-in sensor M5	-30...90	high-grade stainless steel (1.4404 / 316L)	PUR cable / 2 m	3 / 8	TS2789
Cylindrical Ø 10 mm, l 50 mm	-40...90	high-grade stainless steel (1.4404 / 316L)	PUR cable / 2 m	6 / 25	TS2089
Cylindrical Ø 6 mm, l 45 mm	-40...90	high-grade stainless steel (1.4404 / 316L)	PUR cable / 2 m	–	TS2289
Cylindrical Ø 10 mm, l 50 mm	-40...90	high-grade stainless steel (1.4404 / 316L)	PUR cable / 5 m	6 / 25	TS5089
Cylindrical Ø 6 mm, l 45 mm	-40...90	high-grade stainless steel (1.4404 / 316L)	PUR cable / 5 m	–	TS5289
Cylindrical Ø 6 mm, l 45 mm	-40...90	high-grade stainless steel (1.4404 / 316L)	PUR cable / 2.5 m	–	TS9289

Dimensions






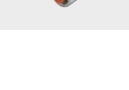
1) tightening torque 1.5 Nm



Evaluation electronics

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
Measured signal converter, Pt100 / Pt1000 in 0...10 mA, scaling 0...100 °C	TP9237

Connection technology

Type	Description	Order no.
	M12 socket, 2 m, black, PUR cable	EVC001
	M12 socket, 5 m, black, PUR cable	EVC002
	M12 jumper 2 m black, PUR cable	EVC013
	M12 jumper 5 m, black, PUR cable	EVC014