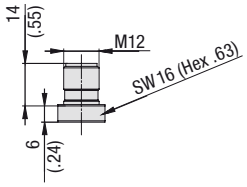
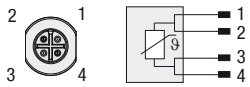
Temperature Sensor ▪ Type TS-SNA/SNK-PT100

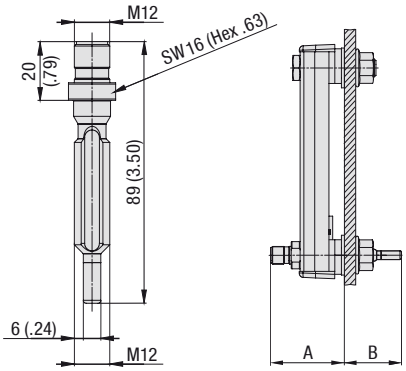
Connection Details and Electrical Functions

Four-pin circular connector M12, A-coded, according to IEC 61076-2-101



Pin Assignment





Order Codes

TS-SNA/SNK-PT100

①

① Type

Temperature Sensor PT100	**TS-SNA/SNK-PT100**

Dimensions

	Dimensions (mm/in) A	B
In conjunction with Level Gauge **SNA**	43,5 1.71	45,5 1.79
In conjunction with Level Gauge **SNK**	51 2.01	38 1.50
In conjunction with Level Gauge **SNKK**	51 2.01	38 1.50

Technical Data

- Operating temperature range (for the connector area): -25 °C ... +80 °C / -13 °F ... +176 °F
- IP 68 protection rating: Dust tight and protected against powerful water jets; even immersion (beyond 1 m / 3.28 ft) in water is possible under defined conditions of pressure and time

Characteristics

Fluid temperature measurement in conjunction with STAUFF Level Gauges SNA, SNK and SNKK; Analysis of signals with TS-SNA/SNK-PT100-D Display / Evaluation Unit, TS-SNA/SNK-PT100-C Signal Converter or system-sided amplifier or transducer

Installation

- Replaces the lower banjo bolt of the Level Gauge
- Available for bolt size M12 only
- Clearance hole: Ø13 mm / Ø.51 in

Materials

- Metal parts (including all fluid-affected parts) made of Stainless Steel V2A (1.4305)

Electrical Specifications

- Measuring temperature range: -40 °C ... +150 °C / -40 °F ... +302 °F
- Platinum mesuring element PT100 according to DIN EN 60751, class A
- Accuracy: ±(0,15 K + 0,002 x |t|)
- Max. contact current: 2,0 mA
- Equipped with four-pin circular connector M12 with gold-plated contacts

Temperature Sensor with Direct Installation Set Type TS-SNA/SNK-PT100-T

Order Codes

TS-SNA/SNK-PT100 - T - B

① ② ③

① Type

Temperature Sensor PT100	**TS-SNA/SNK-PT100**

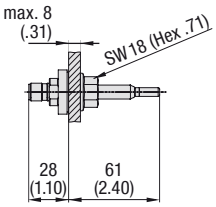
② Direct Adaptor

Direct installation set including M12 screw nut, gasket, front ring and O-ring	**T**

③ Sealing Material

NBR (Buna-N®) (standard option)	**B**
FPM (Viton®)	**V**
EPDM	**E**

The direct installation set can also be used in conjunction with Thermo Switches TS (see page E8). Please consult STAUFF for further information.



Materials

- Fluid-affected parts made of Stainless Steel V2A (1.4305)
- M12 screw nut made of Steel, zinc-plated
- Front ring made of Stainless Steel V2A (1.4305)
- O-ring and gasket made of NBR (Buna-N®) (standard option), FPM (Viton®) or EPDM

Please see top of this page for Technical Details and Electrical Specifications for the Temperature Sensor.

Characteristics

Direct fluid temperature measurement without STAUFF Level Gauges SNA, SNK and SNKK; Analysis of signals with TS-SNA/SNK-PT100-D Display / Evaluation Unit, TS-SNA/SNK-PT100-C Signal Converter or system-sided amplifier or transducer

Installation

- Installation to the outer wall of the reservoir or gearbox
- Compact design and easy installation
- Clearance hole: Ø13 mm / Ø.51 in

Dimensional drawings: All dimensions in mm (in).