CONNECTOR/TRANSMITTER
FOR SANITARY PT100 PROBES WITH M12 CONNECTOR
SPLASH-PROOF BODY AND INTEGRAL CABLE

SPRTX-SS Series

1 YEAR WARRANTY **NIST** **C E**
Optional†

The Smart Connector™

M12 female 4-pin connector

U.S. Pat. No 7,259,686

SPRTX-SS1-M12, shown actual size.

Built-In Transmitter Housing!

SPRTX-SS transmitter with PRS-3-100-A-H-0400-D1-M12 heavy-duty sanitary RTD probe, shown smaller than actual size. Visit omega.com for additional Pt100 RTD probes.
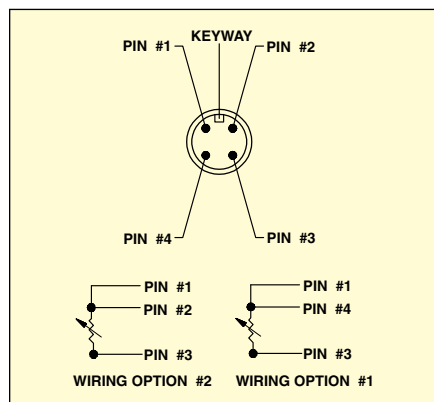
- ✔ **Miniature Design Attaches Directly to Pt100 Sensors with M12 Connector**
- ✔ **2-Wire, 4 to 20 mA Output**
- ✔ **±0.5% FS Accuracy**
- ✔ **Upscale Break Protection**
- ✔ **Encapsulated Signal Conditioner with Water Tight Connector Housing**
- ✔ **Integral 4 m (12') Cable with Stripped Leads on One End**

The SPRTX-SS temperature transmitters are high performance low cost industrial transmitters designed for direct connection to most CIP (clean-in-place) sanitary Pt100 probes with an M12 style connection. The SPRTX-SS transmitter attaches directly to a Pt100 probe with an M12 connection, such as the OMEGA® PRS-S-M12C Series, and provides a standard 4 to 20 mA output signal.

Input: RTD, Pt100 (0.00385 curve), 3 or 4-wire; M12 4-pin female connector

Ambient Temperature: -40 to 85°C (-40 to 185°F)

Probe/Sensor Connection: M12 style, 4-pin female

Output Connection: Integral 2-wire shielded polyurethane cable, 4 m (12')

Approvals: CE marked

Dimensions: 76 H x 20 mm Dia (3.0 x 0.8") without cable

Weight: 110 g (0.25 lb) max, with cable

SPECIFICATIONS
Supply Voltage:
9 to 24 Vdc @ 30 mA max
Max Loop Resistance:
$(V_s – 9V) /0.020$ A
Output Range: Linearized 4 to 20 mA dc over specified input range
Accuracy: ±0.5% FS @ 23°C (73°F)
Repeatability: ±0.25°C (0.5°F)
Temperature Effect: ±0.00022 mA/°C (0.00012 mA/°F)

PIN #1 KEYWAY PIN #2

PIN #4   PIN #3

PIN #1   PIN #1
PIN #2   PIN #4
PIN #3   PIN #3
WIRING OPTION #2 **WIRING OPTION #1**

To Order

MODEL NO.	INPUT RANGE
SPRTX-SS1-M12-(*)	-99 to 208°C
SPRTX-SS2-M12-(*)	2 to 569°C

(*) Specify wiring option (see diagrams): "1" for wiring option 1, "2" for wiring option 2

Accessories

MODEL NO.	INPUT RANGE
SCTX2-100	Extension cable, 2-wire shielded, 30 m (100')
PSR-24S	Regulated power supply, 24 Vdc, 400 mA, screw terminals
PSR-24L	Regulated power supply, 24 Vdc, 400 mA, UL, 1.8 m (6') cable with stripped leads
PSR-24L-230	Regulated power supply, 24 Vdc, 400 mA, 230 Vac, CE, 1.8 m (6') cable with stripped leads
SCE-604ELJ*	NEMA type 4 enclosure 6 H x 4 W x 4" D
CAL-3†	NIST traceable calibration with data

Comes complete with operator's manual.

* *For ELJ Series enclosures and sub-panels visit* **omega.com/sce_elj**

 Ordering Example: SPRTX-SS1-M12-1, *temperature transmitter with Pt100 input, -99 to 208°C (-146 to 406°F) range, 4 to 20 mA output, wiring option 1, M12 female connector for probes (input) and 4 m (12') cable with* **PSR-24S,** *screw terminal power supply.*