

# SmartX™ Living Space Resistive Temperature Sensor

## SXWSATXXXRXX



### Product Description

SmartX sensors are a family of living space sensors for use with SmartX IP controllers. SmartX sensors are available in communicating and non-communicating versions. Communicating versions are powered and connect to the SmartX IP controller using the RJ-45 Sensor Bus. The SXWSATXXXRXX non-communicating version uses a resistive two-wire connection to connect to an I/O port of the SmartX IP controller.

The SXWSATXXXRXX with its reliable 10K Type 3 thermistor and the same look and feel as communicating SmartX sensors, provides a low cost option for measuring temperature in a living space application.

### Features

- Contemporary, sleek housing, same form factor as SmartX communicating sensors
- Low cost conformance part
- 10K Type 3 thermistor
- Two-wire resistive device

### Applicable Documentation

Title	Description
SmartX Living Space Sensor Base	Installation instructions for all base variants
SmartX Living Space Sensor Blank Cover	Installation instructions for blank cover without occupancy sensor
SmartX Living Space Sensor Button and Occupancy Covers	Installation instructions for 3-button covers with and without occupancy sensors and blank cover with occupancy sensor
SmartX Living Space Sensor Touchscreen Cover	Installation instructions for touchscreen models with and without occupancy sensors
SmartX Living Space LCD Temperature Sensor	LCD temperature sensor base and cover installation instructions

## Available Products

## SmartX Combination Base/Cover Sensors

Model Number	Description	Temp	RH	CO <sub>2</sub>	Cover	SmartX System Bus (Communicating)	Resistive Only (Non-communicating)
SXWSATXXXRXX*	Sensor, Temperature, 10K T3, Non-Communicating, Cover Plate	X			Included		X
SXWSATXXXSLX	Sensor, Temperature, LCD, Setpoint, Pushbutton Override, Cover Plate	X			Included	X	

## SmartX Sensor Bases

Model Number	Description	Temp	RH	CO <sub>2</sub>	Cover	SmartX System Bus (Communicating)
SXWSBTXXXSXX	Sensor Base, Temperature	X			Not Included	X
SXWSBTHXSXX	Sensor Base, Temperature, Humidity	X	X		Not Included	X
SXWSBTXCXSXX	Sensor Base, Temperature, CO <sub>2</sub>	X		X	Not Included	X
SXWSBTHCXSXX	Sensor Base, Temperature, Humidity, CO <sub>2</sub>	X	X	X	Not Included	X

## SmartX Covers\*\*

Model Number	Description	61 mm (2.4") Color Touchscreen	Override	Setpoint	Occupancy Sensor (PIR)
SXWSCDXSELXX	Cover Plate, User Interface, Basic	X	X	X	
SXWSC3XSELXX	Cover Plate, Pushbutton Override, Setpoint		X	X	
SXWSCBXSELXX	Cover Plate, Blank Cover				
SXWSCDPSELXX	Cover Plate, User Interface, Basic, Occupancy	X	X	X	X
SXWSC3PSELXX	Cover Plate, Pushbutton Override, Setpoint, Occupancy		X	X	X
SXWSCBPSELXX	Cover Plate, Blank Cover, Occupancy				X

\* Covered by these installation instructions.

\*\* SmartX covers will not work with combination base/cover sensors.

## Specifications

<b>Temperature Sensor</b>	
Type	10K Type 3 thermistor
Accuracy	±0.2 °C (±0.36 °F) typical
<b>Operating Environment</b>	
Operating temperature	0 to 50 °C (32 to 122 °F)
Operating humidity range	0 to 95% RH, non-condensing
Housing material	High impact ABS plastic Flammability rating UL 94 V-0
Mounting location	Not suitable for wet locations. For indoor use only.
<b>Wiring</b>	
Two screw terminals	18-22 AWG, two-wire thermistor
<b>Regulatory Information</b>	
Agency approvals	UL 916, European conformance CE: EN61000-6-3 EN61000 Series - industrial immunity standard FCC Part 15 Class B, REACH, RoHS, Green Premium, RCM (Australia), ICES-003 (Canada), EAC (Russia)

## Thermistor Table

°C	°F	Resistance (Ω)
0	32	29,575
5	41	23,504
10	50	18,809
15	59	15,146
20	68	12,271
25	77	10,000
30	86	8,195
35	95	6,752
40	104	5,592
45	113	4,655
50	122	3,893

Precautions

**DANGER**

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

- Follow safe electrical work practices. See NFPA 70E in the USA, CSA Z462 in Canada, or applicable local codes.
- Read and understand the instructions before installing the product. Follow the instructions during installation.
- Installation, wiring, testing or service must be performed only by qualified persons in accordance with all applicable codes and regulations.
- Do not use the product for life or safety applications.
- Do not install the product in hazardous or classified locations.
- Do not exceed the product's ratings or maximum limits.
- Turn off ALL power supplying equipment before working on or inside the equipment.
- Use a properly rated voltage sensing device to confirm that all power is off.
- Do not depend on the product for voltage indication.
- Remove all wire scraps and tools, replace all doors, covers and protective devices before powering the equipment.

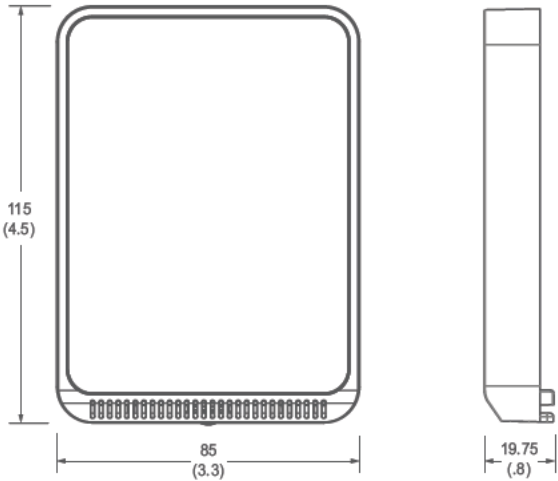
**Failure to follow these instructions will result in death or serious injury.**

A qualified person is one who has skills and knowledge related to the construction and operation of this electrical equipment and installations, and has received safety training to recognize and avoid the hazards involved.

NEC Article 100

If this product is used in a manner not specified by the manufacturer, the protection provided by the product may be impaired. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

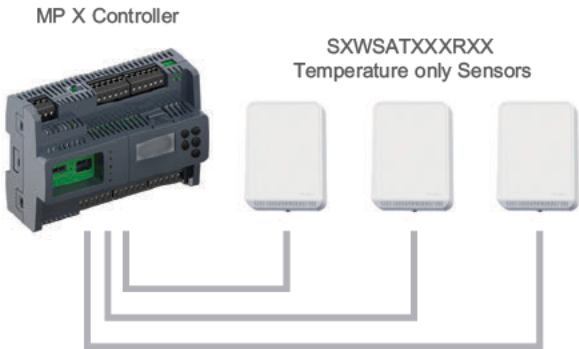
Dimensions mm (in.)  
SmartX Resistive Temperature Sensor Base with  
Cover Installed



Functions

The SXWSATXXXRXX measures temperature in living space applications. It provides a resistive output to an I/O port on a SmartX or Continuum controller.

System Architecture  
MP-X Controller and Non-Communicating Sensors



Each sensor uses an I/O port on the controller.  
Maximum number of inputs varies by controller type.

## Installation

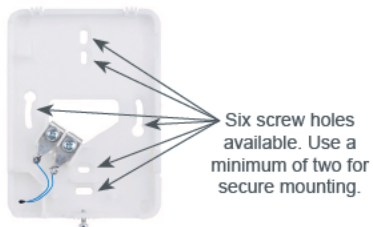
1. Position the sensor vertically on the wall 1.35 m (4.5 ft.) above the floor with the "UP" arrow facing upward. Locate away from windows, vents and other sources of draft. If possible, do not mount on an external wall, as this may cause inaccurate temperature readings.



2. Pull 18 or 22 AWG two-conductor cable(s) through the hole in the backplate.



3. Mount the backplate onto the wall using the screws provided.



4. Connect the wires to the termistor terminals. Do not over-tighten the screws.



5. With sensor base fully installed, align top of cover to mounting tabs on top of sensor base. Swing cover downward until it latches at the bottom.



6. Install locking screw to secure cover in closed position.



China RoHS Compliance Information  
Environment-Friendly Use Period (EFUP) Table

部件名称		有害物质 - Hazardous Substances				
Part Name	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
电子件 Electronic	X	O	O	O	O	O

本表格依据SJ/T11364的规定编制。

O: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572规定的限量要求以下。

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572规定的限量要求。  
(企业可在此处，根据实际情况对上表中打“X”的技术原因进行进一步说明。)

This table is made according to SJ/T 11364.

O: indicates that the concentration of hazardous substance in all of the homogeneous materials for this part is below the limit as stipulated in GB/T 26572.

X: indicates that concentration of hazardous substance in at least one of the homogeneous materials used for this part is above the limit as stipulated in GB/T 26572

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