

# Infinity Sensor Series



## SPECIFICATIONS

### Sensing Element

10K Type III Thermistor, 10,000 ohms at 77 °F (25 °C)

### Range

32 to 105 °F (0 to 40 °C)

### Accuracy

Thermistor  $\pm 0.36$  °F ( $\pm 0.2$  °C)

### Stability

Thermistor will not deviate from accuracy specification for minimum of 5 years.

### Wire Specifications

18 (0.823 mm<sup>2</sup>) to 24 gauge (0.205 mm<sup>2</sup>), 3 conductor, unshielded wire. An additional single pair twisted shielded is required for Lap-Top Service Tool connection.

### Maximum Distance to Sensor

18 gauge (0.823 mm<sup>2</sup>) wire: 2000 ft. (607 m) with less than 0.1 °F (-17.72 °C) error

20 gauge (0.518 mm<sup>2</sup>) wire: 1200 ft. (366 m) with less than 0.1 °F (-17.72 °C) error

22 gauge (0.326 mm<sup>2</sup>) wire: 850 ft. (259 m) with less than 0.1 °F (-17.72 °C) error

24 gauge (0.205 mm<sup>2</sup>) wire: 490 ft. (149 m) with less than 0.1 °F (-17.72 °C) error

### Dimensions

4.50" H x 2.875" W x 1.125" D (11.4 cm H x 7.3 cm W x 2.8 cm D)

### Color

Off-white

### LED

0-5 VDC at 7 mA

## Infinity Sensor Series

The Infinity Sensor Series provides accurate, reliable measurement of interior room temperature for use in an Andover Continuum building automation system. In addition, it is equipped with a setpoint adjustment slider control, an override push button, and an optional programmable LED indicator.

The active sensing element is a highly stable, precision thermistor, accurate to within  $\pm 0.36$  °F ( $\pm 0.2$  °C). The sensor has an operating range of 32 to 105 °F (0 to 40 °C). The thermistor is encapsulated with a low mass, high-conductivity thermal compound for good heat transfer characteristics.

The Infinity Sensor Series utilizes an attractive, well-ventilated plastic enclosure. The housing is securely snapped into the base. The sensor may be mounted directly on dry wall, or on any electrical outlet box with no adapters required. The sensor is for interior use only, and is not suitable for use where condensation may occur.

Both models of the Smart Sensor provide a connection for the Andover Continuum RoamIO-2 Lap-Top Service Tool.

## FEATURES

- Accurate, reliable 10K Type III Thermistor
- Attractive, ventilated two-piece housing
- Optional setpoint adjustment slider and override push button
- Optional programmable LED indicator
- Fast response to temperature changes
- Easy installation and service
- Built-in service port to be used with the RoamIO-2 Service Tool
- Powered directly from the Smart Sensor port on i2 or b3 field controllers

**MODELS**

Part Number	Description	Setpoint Slider	Override Button	Schneider Electric Logo
TTS-S-1	Infinity space temperature sensor	—	—	X
TTS-S-B-1		—	—	—
TTS-SE-NS-1		—	X	X
TTS-SE-BNS-1		—	X	—
TTS-SE-1		X	X	X
TTS-SE-B-1		X	X	—