

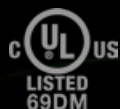
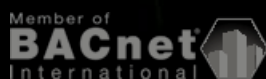


SMART-Sensor™

Programmable Sensor

Monitor your space

A complement to any room, the Reliable Controls SMART-Sensor (SS3) delivers a modern, communicating-sensor solution that allows you to connect with up to ten configurable parameters related to your space.



Better by design

www.reliablecontrols.com/SS3

Tech Specs

Supply Voltages (from controller)

- SS3 - 5 VDC @ 5 mA
- -CO2 option adds 10 mA
- -IO option adds 10 mA
- -OC option adds 0.2 mA

Temperature Specifications

- 12-bit A/D converter
- User calibrated to $\pm 0.1^\circ\text{C}$ (0.18°F) accuracy
- Range, SS3: 0°C to 50°C (32°F to 122°F)
- Range, SS3-IO: -40°C to 120°C (-40°F to 250°F)

CO₂ Sensor (for -CO2 models)

- Automatic background calibration period of 8 days
- Non dispersive infrared optical sensor
- 0-3276 ppm range
- Accuracy ± 50 ppm
- Non Linearity < 1% of full scale
- Power: adds 10 mA to the base SS3

Humidity Sensor (for -H models)

- 10-90% range
- $\pm 3\%$ RH max from 20 to 80%, $\pm 2\%$ typical, see table

Inputs

- Dedicated temperature sensor
- 2 thermistor or dry contact (on -IO models)

Outputs (for -IO models)

- 2 digital MOSFET relays
- 24 VAC @ 0.5 A

Occupancy Sensor (for -OC models)

- Passive infrared radiation (PIR) sensor
- 64 detection zones
- 94° horizontal range / 82° vertical range
- 5 m (16.4 ft.) max. detection distance

Wiring Terminals

- 14 to 26 AWG (2.08 mm² to 0.13 mm²)
- Stranded or solid core
- Copper conductors only

Dimensions

Base model:

- 12 cm L x 7 cm W x 1.9 cm H ($4\frac{3}{4}"$ L x $2\frac{3}{4}"$ W x $\frac{3}{4}"$ H)

CO₂ model:

- 12 cm L x 7 cm W x 2.5 cm H ($4\frac{3}{4}"$ L x $2\frac{3}{4}"$ W x 1" H)

Weight

- 0.086 kg (0.19 lb.)

Ambient Limits

- Operating: 0°C to 50°C (32°F to 122°F)
- Shipping: -25°C to 60°C (-13°F to 140°F)
- Humidity: 10% to 90% RH non-condensing

Features

Aesthetic Design

- Slim profile
- Installs into standard electrical box

Easy Programming

- 10 programmable objects (e.g. inputs, outputs, or values)
- Setpoint or override values can be programmed for adjustment by the user

Connection & Addressing

- Configure network address of SS3 using 4 pole DIP switch
- Valid addresses are 1-16
- Accepts wires 14-26AWG
- Four wire connection

Optional CO₂

- 0-3276 ppm ± 50 ppm NDIR sensor

Optional Humidity

- Accurate onboard humidity sensor

Optional I/O

- Up to 2 thermistor or dry contact inputs, and up to 2 digital MOSFET outputs

Status LED

- Status LED indicates device is networking

Optional Occupancy

- Compact sensor, ideal for detecting the motion of a person up to 5 m (16 ft.) away

Optional Override Button

- Use to override unoccupied mode

Optional Setpoint Slider

- Linear potentiometer

Optional Up/Down Buttons

- Use up/down buttons to adjust setpoint

Warranty

- 5 years

Ordering

SS3 (base model)

- SMART-Sensor with dedicated 10k thermistor onboard, warm gray color

Options

- CO2 adds CO₂ sensor
- H adds humidity sensor
- IO adds 2 inputs and 2 MOSFET outputs
- O adds override button with LED
- OC adds occupancy sensor
- S adds setpoint slider
- UD adds setpoint up and down buttons
- /P1 adds printed warm cool decal beside slider
- /W for white enclosure (eg. SS3-H/W)

Mounting Hardware Included

- 2 X 6-32 X 1" Truss head Phillips drive screws with #6 star washer
- 2 X 1/16" hex drive 6-32 X 5/16" set screws

ACCESSORIES

SSX

- SMART-Sensor Expansion

SS3-EP

- SS3 Extender Plate, warm gray color

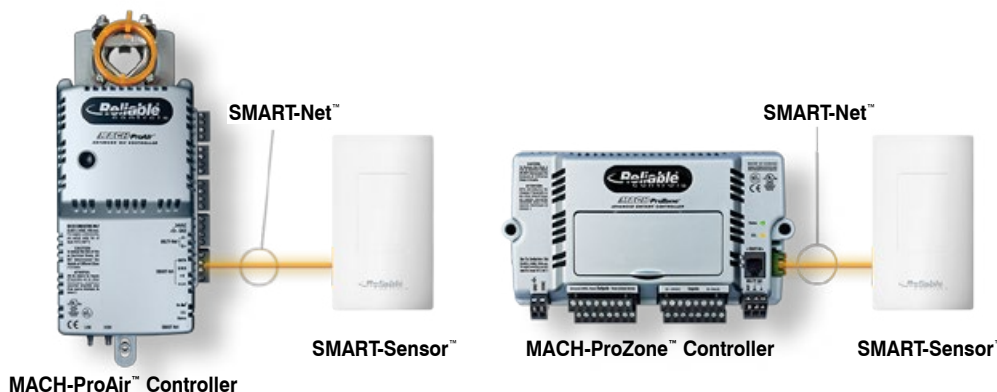
SS3-EP/W

- SS3 Extender Plate, white color

Not all options are available together.

See submittal sheet for valid combinations.

APPLICATION DIAGRAM



Dealer Information: