

# ROOM SENSOR (TEMPERATURE/HUMIDITY)

□ RTH-ND-20-0B1



## CHARACTERISTICS

<b>Material of Construction</b>	PC, white, RAL 9003
<b>Degree of Protection IEC/EN</b>	IP30
<b>Degree of Protection NEMA/UL</b>	NEMA 1

## ENVIRONMENTAL LIMITATIONS

<b>Operating Temperature</b>	32 to 122 °F (0 to 50 °C)
<b>Storage Temperature</b>	40 to 160 °F (-40 to 70 °C)
<b>Operating Humidity</b>	0 to 95 % RH, non-condensing

## ELECTRICAL

<b>Input Voltage</b>	24 VDC
<b>Temperature - Output Voltage</b>	0 to 10 VDC
<b>Humidity - Output Voltage</b>	0 to 10 VDC

## PERFORMANCE

<b>Temperature Range</b>	32 to 122 °F (0 to 50 °C)
<b>Temperature Accuracy</b>	±0.5 °F @ 77 °F (±0.3 °C @ 25 °C)
<b>Humidity Range</b>	0 to 100 % RH
<b>Humidity Accuracy</b>	±2 % between 0 to 90 % RH @ 77 °F (25 °C)

## WIRING GUIDELINES

GROUND	1	— GND
POWER	2	— 24 VDC
TEMPERATURE	14	→ 0-10 VDC
		→ 32-122 °F
HUMIDITY	16	→ 0-10 VDC
		→ 0-100 %

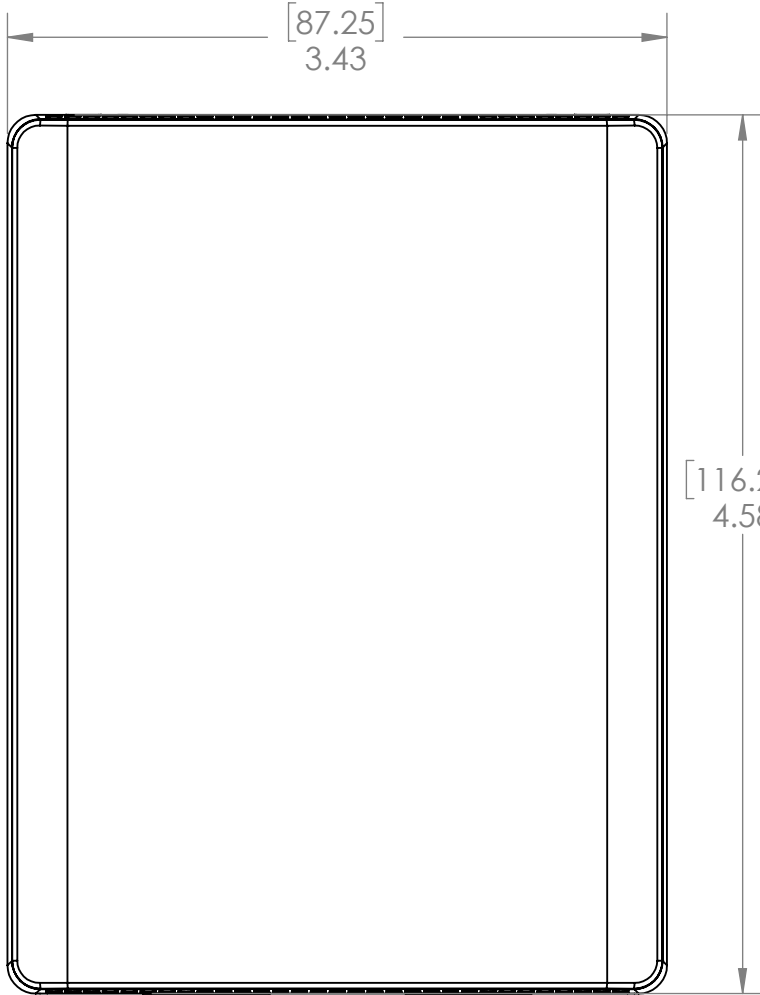
<b>Wire Connection</b>	4 Conductor Stranded
<b>Min Wire Gauge</b>	22 AWG (0.6 mm)
<b>Max Length</b>	200 ft (61 m)
<b>Preferred Color</b>	Red/Black/White/Green

Additional information: Refer to installation guide for more installation details.

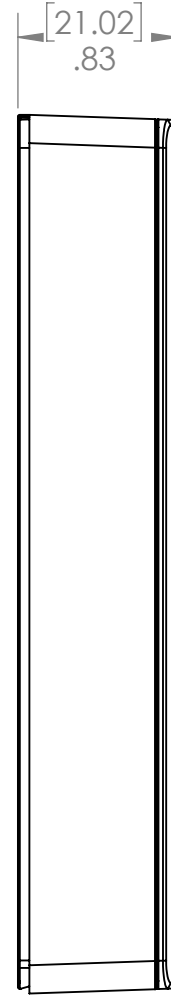
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## Dimensions

### Front View



### Side View



Additional information: Refer to installation guide for more installation details.

#### Key

[BRACKETS] = MILLIMETERS (mm)

NO BRACKETS = INCHES (in)