



TEMPERATURE

RADIANT ROOM TEMPERATURE TRANSMITTER

MODEL TY7321A1009

DESCRIPTION

The **Model TY7321A1009** is a non-contact infrared (IR) radiant room temperature transmitter. IR energy is one of the main components of the perceived temperature in a space. The **Model TY7321A1009** has a wide 52-degree fixed viewing angle that averages the heat energy of the office environment and offers a 1-5 VDC signal for temperature. It mounts conveniently to any ceiling or wall via back box or directly to ceiling tiles or plaster. The lens coverage is adjustable and points horizontally up to 344 degrees and vertically up to 65 degrees.

APPLICATION

The **Model TY7321A1009** is used when mounting a physical sensor is not possible in room applications. The thermopile senses the background heat radiation over an open-air environment and averages the energy into a 1-5V temperature signal. It is ideal in open office environments when the cubical walls prevent sensor mounting. It is also useful in ceiling applications for museums and marble entrance halls. When directed at a sun-drenched outdoor window, the unit measures the effects from the sun so the supply air can be increased to compensate for thermal loading.



MATAKE

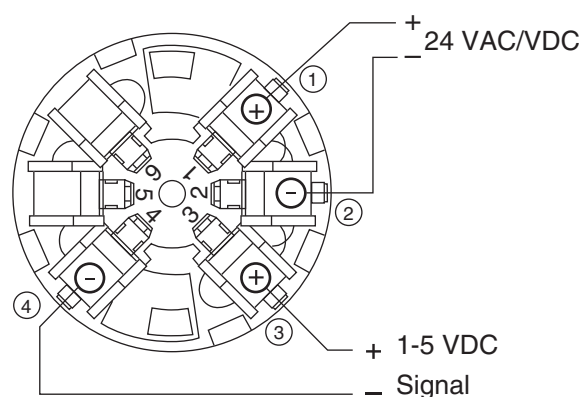
FEATURES

- **Non-contact with 52-degree view angle**
- **1-5V, 32° to 122°F (0° to 50°C)**
- **10-second response**
- **344° swivel coverage**
- **Ceiling or wall mount**
- **Attractive white base and cover**

SPECIFICATIONS

Accuracy	±2°C
Response	10 sec
Emissivity	0.95
Sensing distance	Unlimited (without obstructions)
View angle	52 degrees, distance to sensing = 1:1
Sensor pivot	Adjustable (344 degrees horizontal/65 degrees vertical)
Output	1-5 VDC, 32° to 122°F (0° to 50°C)
Supply voltage	24 VAC/VDC ±15% (50/60 Hz), 0.3 VA
Ambient temp	59° to 95°F (15° to 35°C)
Ambient RH	10% to 90% RH non-condensing
Housing	Fire-resistant plastic (white)
Agency approval	Equivalent to UL94V-0
Weight	0.5 lb (0.23 kg)
Warranty	1 year

WIRING



Terminate to Base

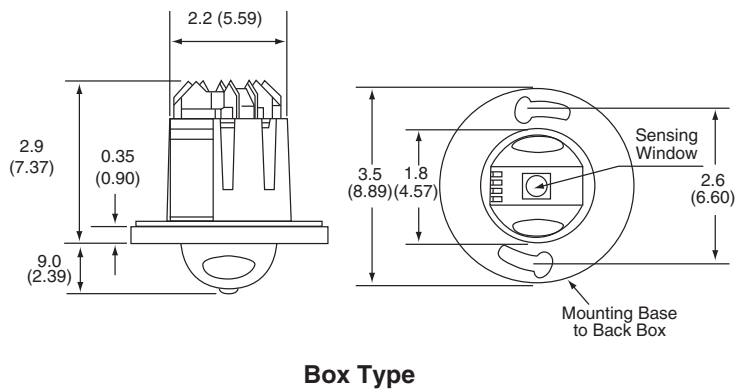
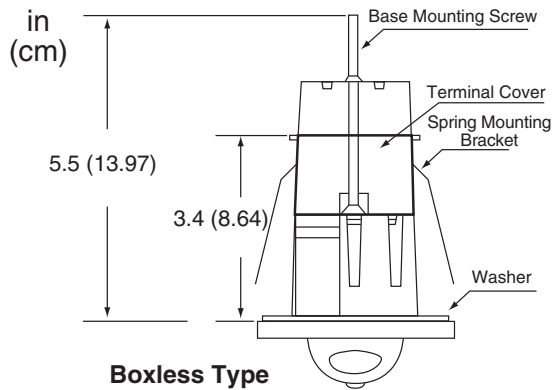
TEMPERATURE

RADIANT ROOM TEMPERATURE TRANSMITTER

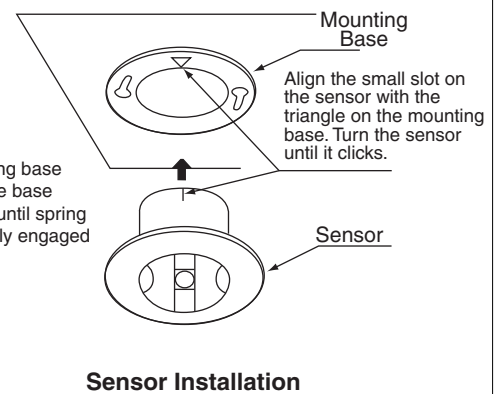
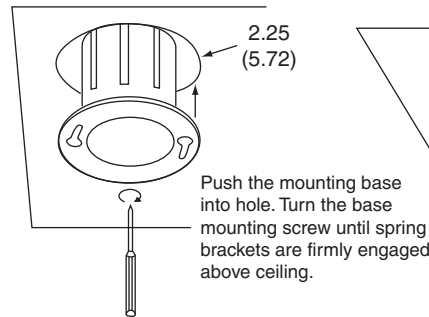
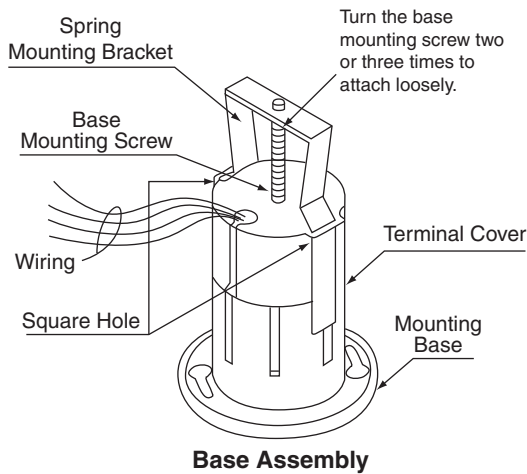
MODEL TY7321A1009



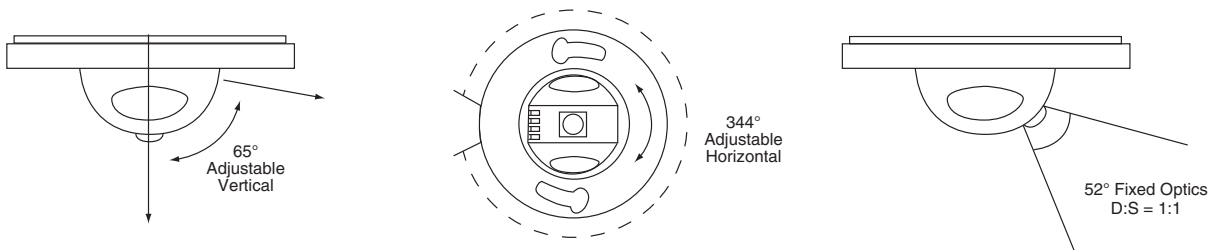
DIMENSIONS



MOUNTING



VIEW



ORDERING INFORMATION

MODEL
TY7321A1009

DESCRIPTION
Infrared room temperature transmitter, ceiling mount