



High-Definition Dual Tech Motion Sensor | Model: S-DT-C12-DRWH



Features

- Passive Infrared (PIR) Sensor
- Ultrasonic 40 KHz
- Bluetooth Mesh Qualified
- LED Motion Indicator
- Suitable for Indoor Use Only
- Program Occupancy / Vacancy
- 360° Coverage Pattern

Certifications



Installation

For best results, the Corridor - One Way Motion Sensor needs to be installed within 30 feet of the closest device within the Bluetooth Mesh network. **24VDC power needs to be supplied to the sensor from others, the auxiliary DC output of a BubblyNet Controller or one BubblyNet A-T03-12-17-DS00 3w AC/DC Transformer, neither included.**

Connectivity

Devices are repeaters for other devices and should be installed within a certain maximum distance from each other.

Typical maximum distance: <u>Outdoor (line of sight):</u>	200ft
<u>Indoor (through building material):</u>	100ft
Glass:	70ft
Drywall:	60ft
Cinderblock:	50ft
Brick:	50ft
Concrete + rebar	0ft

Devices with external antenna should have the antenna outside any metal box and away from metal surfaces as metal reduces connectivity.

For design purposes a 60ft. maximum distance is appropriate for most installations.

Specifications

- Voltage - 24 VDC/VAC (32 mA 50/60 Hz)
- Sensing technologies - Passive Infrared (PIR), Single Pyro, 11 Detection Levels, 520 Switching Zones, Ultrasonic 40 kHz
- Light Level Setting - 10 - 1000 lux / 1 - 100 fc
- Environment- IP20 rated, 0°C to +40°C, 32°F to +104°F
- Ultrasonic Detection Zones: (Coverage at 2.5 m / 9 ft)
 - presence: max. 6 x 6 m (36 sq.m.)
max. 20 x 20 ft (400 sq. ft.)
min. 2 x 2 m (4 sq. m.)
min. 6.5 x 6.5 ft (42.25 sq. ft.)
 - radial / tangential: max. of up to 10 x 10 m (100.0 sq. m.)
 - radial / tangential: max. of up to 32 x 32 m (1000.0 sq. m.)
- PIR Detection Zones:
 - presence: max. 3 x 3 m (9 sq.m.)
max. 10 x 10 ft (100 sq. ft.)
 - radially: max. 4 x 4 m (13 x 13 ft)
 - tangentially: max. 8 x 8 m (26 x 26 ft)
- Dimensions - 4.72 x 4.72 x 2.68 in, 120 x 120 x 68 mm (LxWxD)
- Warranty - 5 Years

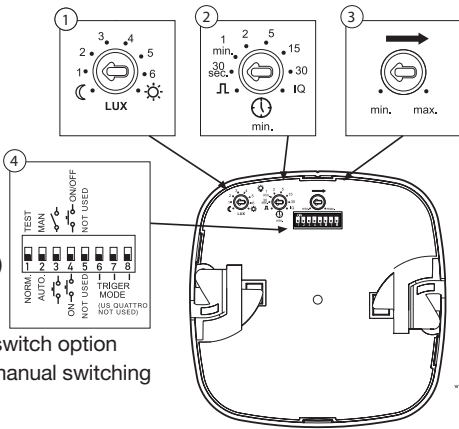
*results may vary based on mounting height, temperature, angle, floor material, and line of sight.

Description

The S-DT-C12-DRWH Dual Technology Presence Detector utilizes PIR and ultrasonic technologies to detect the presence or signature of a person in a space. The logic options for initial "ON" and "Maintained" state of occupancy gives design engineers and installation contractors the choice for proper control of lighting and building automation in difficult applications where detection options are needed in a single device. Lighting loads are controlled in relation to both presence detection and selectable ambient light levels with the integrated force off photocell to maximize energy savings. STEINEL's world class PIR optics and ultrasonic signal processing provides unparalleled line of sight and volumetric presence detection.

Settings

- 1 - Light level setting
- 2 - Occupancy time delay setting
- 3 - Reach setting
- 4 - Sensor DIP switch settings
- 5 - Trigger mode

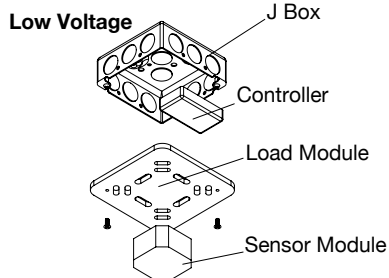
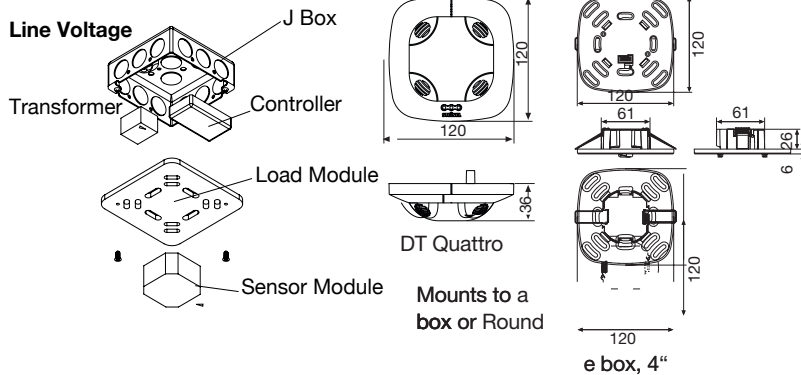


- DIP 1 - Normal mode / Test mode (NORM / TEST)
 DIP 2 - Manual ON mode (MAN) / Automatic mode (AUTO)
 DIP 3 - Momentary / Maintained switch option
 DIP 4 - 'ON' only / 'ON' & 'OFF' manual switching
 DIP 5 - Not used
 DIP 6/7/8 - Trigger mode

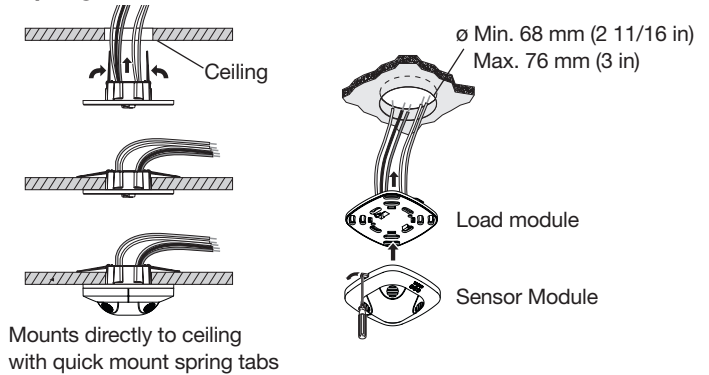
Trigger Mode Options	Initial Occupancy	Maintain Occupancy	DIP 6	DIP 7	DIP 8
Option 1	Both	Either	↓ OFF	↓ OFF	↓ OFF
Option 2	Both	Both	↓ OFF	↓ OFF	↑ ON
Option 3	PIR	Either	↓ OFF	↑ ON	↓ OFF
Option 4	US	Either	↓ OFF	↑ ON	↑ ON
Option 5 Factory Setting	Either	Either	↑ ON	↓ OFF	↓ OFF
Option 6	US	US	↑ ON	↓ OFF	↑ ON
Option 7	PIR	PIR	↑ ON	↑ ON	↓ OFF
Option 8	Either	Both	↑ ON	↑ ON	↑ ON

The trigger mode enables the user to choose which sensing technologies should be used to initially turn the load on and which technologies are required to keep it on.

J-Box Mounted



Spring Mounted



Coverage

Shown coverage diagram at 9 ft mounting height. Ultrasonic signal can be increased by hard surfaces and decreased by soft surfaces.

