

DS840LSN Series TriTech PIR and Microwave Detectors



Security Systems



- Two-wire connection to local security network (LSN)
- Microwave and passive infrared (PIR) supervision every 12 hours
- Pet friendly
- Tamper switch
- Temperature compensation
- Pointable mirrors
- Two mounting options

The DS840LSN series products are wall mounted passive infrared (PIR) and microwave detectors. When both the microwave and PIR technologies detect motion, the DS840LSN Detector signals an alarm condition.

Functions

Supervised Microwave and PIR Technologies

PIR and microwave: The detector performs an internal self-test every 12 hours to check the microwave and PIR subsystems. If the microwave or PIR subsystem fails, the detector performs another test. If either subsystem fails the second test, the light emitting diode (LED) flashes red, indicating that you should replace the detector. The detector sends a trouble signal to the control panel through the LSN bus.

Default: The PIR circuitry provides single technology coverage if the microwave subsystem fails.

Configuration

Use the software in the corresponding LSN control panel to configure the detector.

PIR Sensitivity Settings

Use the LSN control panel's software to select one of the following sensitivity settings:

Standard sensitivity: Minimizes false alarms and tolerates temperature extremes.

Intermediate sensitivity: Appropriate for applications where an intruder moves through a small portion of the protected area. This setting tolerates normal environments. Do not use this setting in areas with pets or animals.

False Alarm Immunity

The detector does not detect the following animals:

- One dog up to 45 kg (100 lbs)
- Small rodents, such as rats
- Up to ten cats
- Flying birds

Indicators

The detector has an externally visible LED that emits red, green, or yellow light. Different combinations of color and flashing patterns provide status information such as Walk Test Disabled, Walk Test Enabled, Power-up, Dual Alarm, Microwave Alarm, PIR Alarm, or No Activity.

Signals

The detector transmits alarm, tamper, and trouble information through the LSN bus.

Temperature Compensation

The PIR sensitivity increases and decreases according to ambient temperature to detect human body heat and avoid false alarms.

Certifications and Approvals

Approvals	DS840LSN	DS840LSN-C	DS840LSN-F5
CE	X	X	X

Installation/Configuration Notes

Installation Considerations

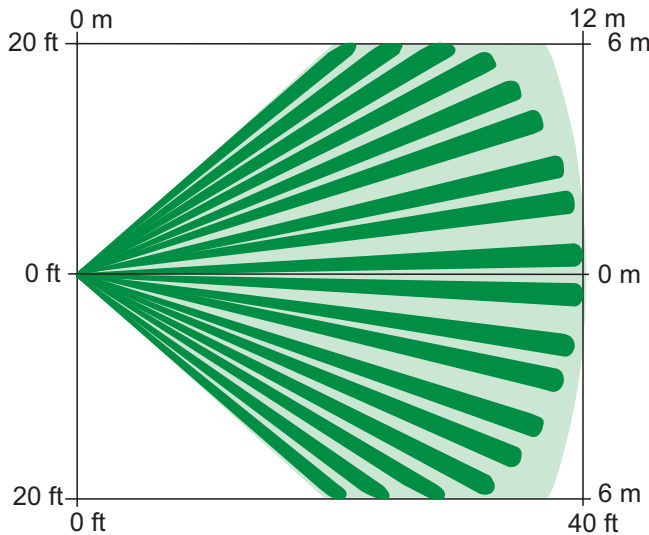
The mounting height range is 2.0 m to 2.6 m (6.6 ft to 8.5 ft).

Note: Using the B335 or B338 brackets can reduce range and increase dead zone areas.

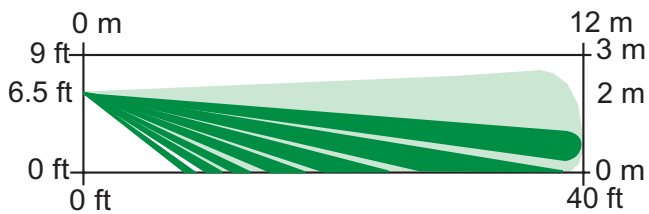
The detector can respond to movement in its field-of-view or rapid temperature changes. Point the detector away from sunlight, windows, ceiling fans, and high-traffic roads.

Broad Pattern Coverage 12 m x 12 m (40 ft x 40 ft)

Top View



Side View



Technical Specifications

Internal Lens Pointability: +2° to -18° vertical

Enclosure

Dimensions: 10.8 cm x 7 cm x 4.6 cm (4.25 in. x 2.75 in. x 1.8 in.)

Material: High impact ABS plastic

Environmental Considerations

Storage and Operating Temperature: -20°C to +55°C (-4°F to +130°F)

Microwave Frequency

DS840LSN: 10.525 GHz

DS840LSN-C: 10.588 GHz

DS840LSN-F5: 9.35 GHz

Power Requirements

LSN Current Consumption: 4.0 mA

LSN Supply Voltage: 33 V maximum

Standby Power: No internal standby battery. Requires 4 mAh for each hour of standby time needed.

Trademarks

TriTech® is a registered trademark of Bosch Security Systems in the United States.

Ordering Information

DS840LSN Detector (10.525 GHz) DS840LSN

DS840LSN-C Detector (10.588 GHz) DS840LSN-C

DS840LSN-F5 Detector (9.35 GHz) DS840LSN-F5

Hardware Accessories

B335-3 Low-profile Swivel-mount Bracket B335-3

B338 Universal Ceiling Bracket B338

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