

# DS840LSN TriTech PIR/MW Dual Motion Detector

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Invented for life



- ▶ Twin-wire connection to local security network (LSN)
- ▶ Microwave and passive infrared (PIR) monitoring every 12 hours
- ▶ Pet immunity
- ▶ Tamper switch
- ▶ Temperature compensation

The products in the DS840LSN series are wall-mounted passive infrared (PIR) and microwave motion detectors. When both monitoring fields are activated, passive infrared and microwave technology triggers an alarm.

## Functions

### Monitoring security through microwave and PIR technology

- **PIR and microwave:** The detector carries out an internal self test every 12 hours to check the microwave and PIR systems. If there is a microwave or PIR system failure, the detector carries out another test. If the second test cannot be successfully completed on both systems, the light-emitting diode (LED) flashes red to indicate that the detector needs to be replaced. The detector transmits a fault signal to the control panel via the LSN bus.
- **Factory default setting:** The PIR technology ensures detection in the event of microwave technology failure.

### Configuration

Configure the detector using the software in the corresponding LSN control panel.

### PIR sensitivity settings

Select one of the following sensitivity settings using the software in the LSN control panel:

**Standard sensitivity:** Minimizes false alarms and is suitable for extreme temperatures.

**Intermediate sensitivity:** Suitable for instances where an intruder only moves through a small section of the protected area. Normal surroundings are tolerated on this setting. Do not use this setting in areas with pets or animals.

### False alarm immunity

The detector does not recognize the following animals:

- a dog up to 45 kg
- small rodents, e.g. rats
- up to 10 cats
- flying birds

### Displays

The detector has a visible external LED, which lights up in red, green, and yellow. Various color and flashing combinations are used to provide status information such as: walk test deactivated, walk test activated, power supply turned on, dual alarm, microwave alarm, PIR alarm, and no activity.

**Signals**

The detector transmits alarm, tampering, and fault information via the LSN bus.

**Temperature compensation**

The PIR sensitivity is increased or lowered depending on the ambient temperature in order to recognize human body heat and suppress false alarms.

**Certifications and approvals**

Region	Certification	
Germany	VdS	G 106517 DS 840 LSN
Europe	CE	EMC, R&TTE [DS840LSN, DS840LSN-F5]
	EN5013 1	EN-ST-000080 DS840LSN

**Installation/configuration notes**

**Installation notes**

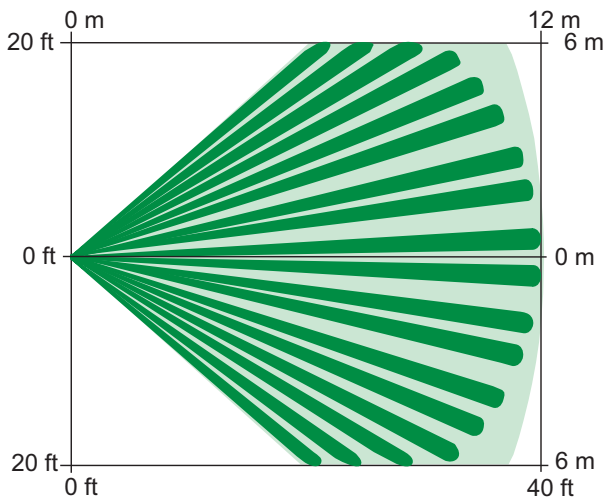
The installation height is between 2.0 m and 2.6 m.



**Notice**

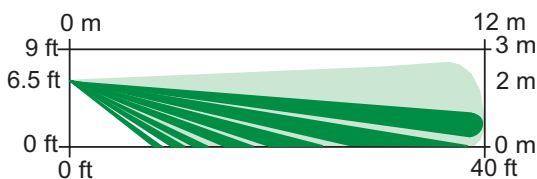
When using the B335 or B338 mount, the range can be impaired and the dead zones can be expanded.

The detector can react in its monitoring area to movements or swift changes in temperature. Position the detector away from direct sunlight, windows, ceiling fans, and busy roads.



**Top view**

Monitoring area: 12 m x 12 m



**Side view**

Monitoring area: 12 m x 12 m

**Technical specifications**

**Housing**

Dimensions:	10.8 cm x 7 cm x 4.6 cm
Material:	High-impact ABS plastic

**Environmental conditions**

Storage and operating temperature:	-20 °C to +55 °C
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**Installation notes**

Internal lens adjustment:	+2° to -18° vertically
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**Microwave frequency**

DS840LSN:	10.525 GHz
DS840LSN-F5:	9.35 GHz

**Power requirements**

LSN current consumption:	4.0 mA (MAP power index 27)
LSN power supply:	33 V maximum
Standby power supply	No internal emergency battery available. Requires 4 mAh per hour in standby mode.

**Trademarks**

TriTech is a registered trademark of Bosch Security Systems in the USA.

**Ordering information**

**DS840LSN Detector (10.525 GHz)**

Operates at 10.525 GHz. Monitoring area of 12 m x 12 m, twin-wire connection to LSN, microwave and PIR monitoring every 12 hours, pet immunity, and tamper switch.

Order number **DS840LSN**

**DS840LSN-C Detector (10.588 GHz)**

Operates at 10.588 GHz. Monitoring area of 12 m x 12 m, twin-wire connection to LSN, microwave and PIR monitoring every 12 hours, pet immunity, and tamper switch.

Order number **DS840LSN-C**

**DS840LSN-F5 Detector (9.35 GHz)**

Operates at 9.35 GHz. Monitoring area of 12 m x 12 m, twin-wire connection to LSN, microwave and PIR monitoring every 12 hours, pet immunity, and tamper switch.

Order number **DS840LSN-F5**

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## Accessories

### **B335-3 Swiveling low-profile mount**

Swiveling, low-profile, universal bracket for wall mounting. The vertical swivel range is +10° to -20°, while the horizontal swivel range is ±25°.

Order number **B335-3**

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### **B338 Universal Ceiling-mount Bracket**

Swiveling universal bracket for ceiling mounting. The vertical swivel range is +7° to -16°, while the horizontal swivel range is ±45°.

Order number **B338**

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