

DS860 Series TriTech PIR and Microwave Detector



Security Systems



- Artificial Intelligence
- Five layers of detection including look-down zone
- Supervised microwave and PIR
- Selectable PIR sensitivity
- Draft/insect immunity
- Five mounting options
- Two coverage patterns
- Vertical and horizontal pointability

The DS860 Series TriTech[®] Detectors with their passive infrared and microwave processing provide excellent catch performance with freedom from false alarms. These surface or corner mount detectors are available with three different microwave frequencies:

Model	Microwave Frequency
DS860	10.525 GHz
DS860-A	10.687 GHz
DS860-B	9.9 GHz

Functions

Signal Processing

Uses passive infrared and microwave technologies to provide an alarm condition when both fields of protection are simultaneously activated. Alarm signals must meet the signaling requirements of both technologies to activate an alarm.

Adjustable PIR and Microwave Sensitivity PIR Signal Processing

Motion Analyzer II uses multiple thresholds and timing windows to analyze timing, amplitude, duration and polarity of signals to make an alarm decision. Will not alarm on extreme levels of thermal and illumination disturbances caused by heaters and air conditioners, hot and cold drafts, sunlight, lightning, and moving headlights. Two sensitivity settings are provided.

Microwave Signal Processing

Pattern recognition circuitry identifies and ignores repetitive false alarm sources. Adaptive processing adjusts to background disturbances. This helps to reduce false alarms while maintaining catch performance.

Test Features

Externally visible alarm LED flashes to indicate a trouble condition.

Supervised Microwave and PIR

Patented fully supervised microwave and PIR circuitry provides single technology coverage in the event the microwave subsystem fails. Use the memory circuit to force a self-test at anytime.

Draft and Insect Immunity

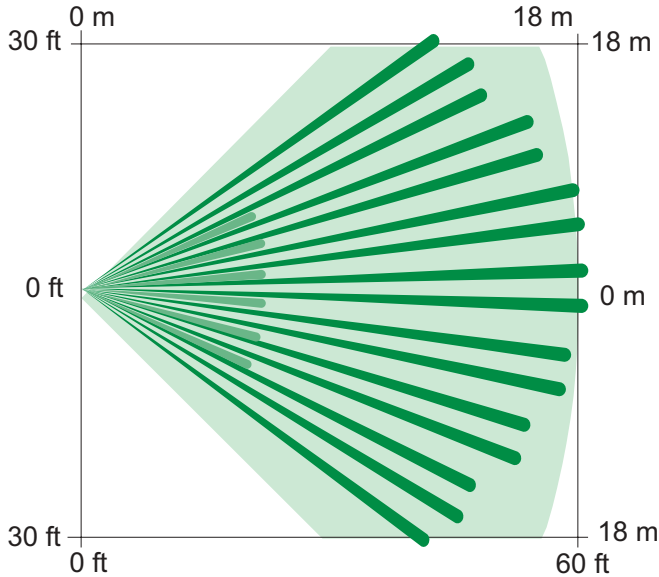
The sealed optical chamber provides immunity to drafts and insects.

Certifications and Approvals

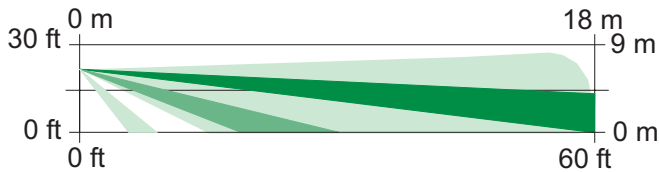
Listings and Approvals: UL639, Intrusion Detection Units
 ULC: S306-M89
 CE
 Complies with: FCC Compliant

Installation/Configuration Notes

Standard Broad Coverage: 18.3 m x 18.3 m (60 ft x 60 ft)
Top View

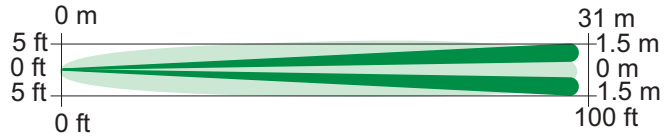


Side View



Optional Long Range Coverage: 30.5 m x 3 m (100 ft x 10 ft)
Note: Requires optional ORL92-3 lens.

Top View



Side View



Mounting

The recommended mounting height is 2.3 m (7.5 ft). Mounts to a standard single gang electrical box.

Technical Specifications

Radio Frequency Interference (RFI) immunity: No alarm or setup on critical frequencies in the range from 26 MHz to 950 MHz at 50 V/m.

Enclosure Design

Dimensions: 12.7 cm x 7.1 cm x 5.6 cm
 (5 in. x 2.8 in. x 2.2 in.)

Material: High impact ABS plastic enclosure.

Environmental Considerations

Operating Temperature: -40°C to +49°C (-40°F to +120°F)
 For UL Certificated installations, 0°C to +49°C (+32°F to +120°F)

Mounting

Height Range: 1.8 m to 2.4 m (6 ft to 8 ft)
Location: Surface or corner mount

Outputs

Alarm: Normally-closed reed relay rated at 3.0 W, 125 mA at 28 VDC for resistive loads and protected by a 4.7 Ω resistor in the common C leg.
Tamper: Normally-closed tamper switch. Contacts rated at 28 VDC, 125 mA maximum.

Power Requirements

Current Draw: 16 mA at 12 VDC
Voltage: 9 VDC to 15 VDC

Trademarks

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

Ordering Information

DS860 Detector (10.525 GHz)	DS860
DS860-A Detector (10.687 GHz)	DS860-A
DS860-B Detector (9.9 GHz)	DS860-B
DS860-B Detector for France	DS860B-FRA
DS860-B Detector for Italy	DS860B-ITA

Hardware Accessories

B328 Gimbal-mount Bracket	B328
B335-3 Low-profile Swivel-mount Bracket	B335-3
B800 Ceiling-mount Bracket	B800
OLR92-3 Longe-range Lens	OLR92-3

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