



BOSCH
Invented for life

Blue Line ISM-BLD1-P Pet Friendly TriTech Detectors



- ▶ 11 m x 11 m (35 ft x 35 ft) broad coverage
- ▶ Pet Friendly®
- ▶ Dual detection technologies with advanced signal processing
- ▶ Flexible mounting height from 2.3 m to 2.7 m (7.5 ft to 9 ft)
- ▶ No range or height adjustments required
- ▶ Supervised microwave; microwave range can be adjusted
- ▶ Eight detection layers including optional look-down zone
- ▶ Draft and insect immunity
- ▶ Temperature compensation
- ▶ Combined cover and wall tamper

The ISM-BLD1-P Pet Friendly® TriTech® Detectors use a combination of passive infrared (PIR) and microwave detection technologies. With advanced signal processing and these detection technologies, the detectors generate alarms for human intruders without generating false alarms for pets. These small unobtrusive detectors are simple to install and do not need field adjustments.

These detectors are available in three frequencies:

Frequency	Detector
9.9 GHz	ISM-BLD1-P-F3
10.525 GHz	ISM-BLD1-P-F1
10.687 GHz	ISM-BLD1-P-F4

Functions

Advanced Signal Processing

Adaptive processing adjusts to background disturbances, reducing false alarms without sacrificing the ability to respond to an intruder.

First Step Processing (FSP) almost instantly responds to human targets without producing false alarms from other sources. FSP adjusts the detector's sensitivity based on signal amplitude, polarity, slope, and timing. This eliminates the need for the installer to select the sensitivity level. Each sensor (PIR and microwave) processes signals individually,

and both sensors must agree there is an alarm before the alarm relay activates.

Test Features

An externally-visible, tri-color (blue, yellow, green) alarm LED (light-emitting diode) indicates each sensor's status.

Supervised Microwave

The microwave circuit is fully supervised. If the microwave subsystem fails, the PIR subsystem provides single technology coverage.

Pet Immunity (not tested by UL)

The detector can distinguish between signals caused by humans and signals caused by pets. It ignores signals caused by one or two pets up to 45 kg (100 lb) or numerous rodents.

Draft and Insect Immunity

The sealed optical chamber prevents drafts and insects from affecting the detector.

Temperature Compensation

The detector adjusts its sensitivity to maintain its ability to identify human intruders at critical temperatures.

Certifications and Approvals

All Models

Country	Certification/Listing Number
Europe	CE(!) Complies with EN50131-1 grade 2
Canada	UL ANSR7: : Intrusion Detection Units Certified for Canada (ULC-S306)
Ukraine	IEC 60839-1-3-2001, 60839-2-2-2001, 60839-2-6-2001 GOST 26342-84, 27990-88
US	UL ANSR: Intrusion Detection Units (UL639)

ISM-BLD1-P-F1

Country	Certification/Listing Number
Belgium	INCERT
Canada	Industry Canada (1249A-ISMBLD1)
China	CCC (2004031901000037)
Czech Republic	NBU
Italy	IMQ
Poland	POL
Russia	GOST 12997-84, GOST R 50009-2000, GOST R 51317.3.2-99, GOST R 51317.3.3-99, GOST R MEK 60065-2002
Sweden	SBSC
US	Federal Communications Commission (FCC ESVDI)




Installation/Configuration Notes

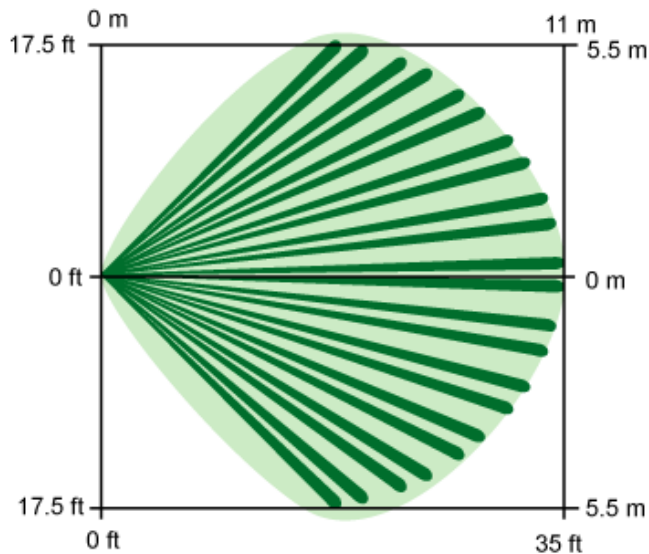
Application Information

Coverage Patterns

Note An alarm occurs only when an intruder is detected in areas in which the PIR and microwave patterns overlap.

Coverage Pattern Legend

-  PIR coverage pattern
-  Look-down zone
-  Microwave coverage pattern



Top View Broad: 11 m x 11 m (35 ft x 35 ft)



Side Broad: 11 m x 11 m (35 ft x 35 ft)

Mounting

The recommended mounting height is 2.3 m to 2.7 m (7.5 ft to 9 ft).

The detector can be mounted:

- On a flat wall (surface, semi-flush) with the optional B335 Swivel-mount Bracket, or with the optional B328 Gimbal-mount Bracket,
- In the junction of two perpendicular walls, or
- On the ceiling with the optional B338 Ceiling-mount Bracket.

Standby Power

This detector has no internal standby battery. *For UL Listed product installations, 4 hr (60 mAh) of standby power must be supplied by the control unit or by a UL Listed burglary power supply.*

Parts Included

Quant.	Component
1	Detector
1	Hardware pack
1	Literature pack

Technical Specifications

Environmental Considerations

Complies with EN50131 Environmental Class II, Security Grade 2

Relative Humidity: 0 to 85%, non-condensing

Temperature (operating): -29°C to +49°C (-20°F to +120°F)
For UL Listed product installations, 0°
C to +49°C (+32°F to +120°F)

Mechanical Properties

Color: White

Dimensions: 13.2 cm x 6.1 cm x 4.8 cm (5.2 in. x 2.4 in. x 1.9 in.)

Material: High-impact ABS plastic

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

Outputs

Digital Alarm: 5 V normally, ground for 4 sec during alarm.

Relay: Solid state, supervised Form A normally-closed (NC) contacts rated for 125 mA, 28 VDC, 3 W.

Tamper: Normally-closed (NC) contacts (with cover on) rated at 28 VDC, 125 mA maximum.
Connect tamper circuit to 24-hour protection circuit.

Power Requirements

Current (Alarm): 22 mA

Current (Standby): 15 mA maximum at 12 VDC

Voltage (Operating): 10 VDC to 14 VDC

Trademarks

Pet Friendly® and TriTech® are registered trademarks of Bosch Security Systems in the United States.

Ordering Information

Blue Line ISM-BLD1-P TriTech Detector (10.525 GHz) ISM-BLD1-P-F1

Blue Line ISM-BLD1-P TriTech Detector (9.9 GHz) ISM-BLD1-P-F3

Blue Line ISM-BLD1-P TriTech Detector (10.687 GHz) ISM-BLD1-P-F4

Accessories

Blue Line ISM-BLA1-CC Color Camera Module (NTSC format) ISM-BLA1-CC-N

Blue Line ISM-BLA1-CC Color Camera Module (PAL format) ISM-BLA1-CC-P

Blue Line ISM-BLA1-CM Monochrome Camera Module (CCIR Format) ISM-BLA1-CM-C

Ordering Information

Blue Line ISM-BLA1-CM Monochrome Camera Module (EIA format) ISM-BLA1-CM-E

Blue Line ISM-BLA1-LM Nightlight Module ISM-BLA1-LM

Blue Line ISM-BLA1-SM Sounder Module ISM-BLA1-SM

B328 Gimbal-mount Bracket B328
Mounts on a single-gang box and allows rotation of a detector. Wires are hidden inside.

B335-3 Low-profile Swivel-mount Bracket B335-3
Plastic, swivel, low profile bracket for walls. The vertical pivot range is +10° to -20°; the horizontal pivot range is ±25°. Shipped in packages of three.

B338 Universal Ceiling Bracket B338
Plastic swivel bracket for ceilings. The vertical pivot range is +7° to -16°; the horizontal pivot range is ±45°.

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