


**BOSCH**

Invented for life

# Blue Line ISM-BLP1 Passive-infrared Detector



- ▶ 11 m x 11 m (35 ft x 35 ft) broad coverage
- ▶ First Step Processing (FSP)
- ▶ Flexible mounting height from 2.3 m to 2.7 m (7.5 ft to 9 ft)
- ▶ No range or height adjustments required
- ▶ Installation-friendly two-piece design
- ▶ Easy wiring access with plug-in terminals
- ▶ Draft and insect immunity
- ▶ Eight detection layers including optional look-down zone
- ▶ Temperature compensation
- ▶ Optional camera, nightlight, and sounder modules

The ISM-BLP1 Detector uses a high-density (77 zone) Fresnel lens designed to produce sharply-focused images throughout the field of view providing superior response to intruders. Easy installation and flexible mounting options provide state-of-the-art detection.

## Functions

### Signal Processing

*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.

### Test Features

The externally-visible alarm LED can be disabled after installation.

### Draft and Insect Immunity

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

### Temperature Compensation

The detector adjusts its sensitivity so that it can identify human intruders at critical temperatures.

## Certifications and Approvals

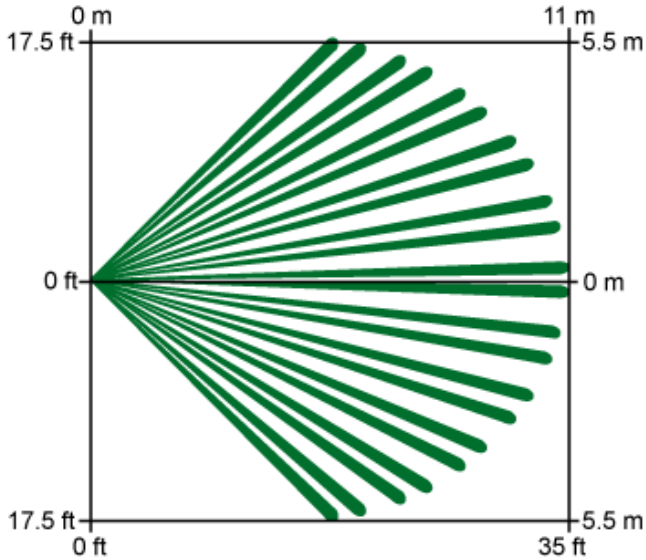
Country	Certification/Listing Number
Europe	CE Designed to comply with EN50131-1 Grade 2
Belgium	INCERT (B-509-0009)
Canada	UL ANSR7: Intrusion Detection Units Certified for Canada (ULCS306)
China	CCC 2004031901000035)
Czech Republic	NBU
France	Afnor (NF, A2P)
Italy	IMQ
Poland	POL
Russia	GOST 12997-84, GOST R 50009-2000, GOST R 51317.3.2-99, GOST R 51317.3.3-99, GOST R MEK 60065-2002
Sweden	SBSC
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)

## Installation/Configuration Notes

### Coverage Patterns

### Coverage Pattern Legend

- PIR coverage pattern
- Look-down zone



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



Side View 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.

**Note** The use of optional mounting brackets can reduce the detector's range and increase the dead zone areas.

**Power Considerations**

**Power Limits**

Input power must be provided by an Approved Limited Power Source. All outputs must be connected to SELV (safety extra-low voltage) circuits only.

**Standby Power**

This detector has no internal standby battery. For UL Listed product installations, 4 hr (40 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**

Designed to comply 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: 10.7 cm x 6.1 cm x 4.8 cm (4.2 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, grounded 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): 18 mA

Current (Standby): 10 mA maximum at 12 VDC

Voltage (Operating): 10 VDC to 14 VDC

**Ordering Information**

<b>Blue Line ISM-BLP1 Passive-infrared Detector</b>	<b>ISM-BLP1</b>
<b>Accessories</b>	
<b>Blue Line ISM-BLA1-CC Color Camera Module (NTSC format)</b>	<b>ISM-BLA1-CC-N</b>

## Ordering Information

<b>Blue Line ISM-BLA1-CC Color Camera Module (PAL format)</b>	<b>ISM-BLA1-CC-P</b>
<b>Blue Line ISM-BLA1-CM Monochrome Camera Module (CCIR Format)</b>	<b>ISM-BLA1-CM-C</b>
<b>Blue Line ISM-BLA1-CM Monochrome Camera Module (EIA format)</b>	<b>ISM-BLA1-CM-E</b>
<b>Blue Line ISM-BLA1-LM Nightlight Module</b>	<b>ISM-BLA1-LM</b>
<b>Blue Line ISM-BLA1-SM Sounder Module</b>	<b>ISM-BLA1-SM</b>
<b>B328 Gimbal-mount Bracket</b> Mounts on a single-gang box and allows rotation of a detector. Wires are hidden inside.	<b>B328</b>
<b>B335-3 Low-profile Swivel-mount Bracket</b> 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.	<b>B335-3</b>
<b>B338 Universal Ceiling Bracket</b> Plastic swivel bracket for ceilings. The vertical pivot range is +7° to -16°; the horizontal pivot range is ±45°.	<b>B338</b>

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