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 to provide superior response to intruders. Easy installation and flexible mounting options provide state-of-the-art detection every time.

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 to maintain its ability to identify human intruders at critical temperatures.
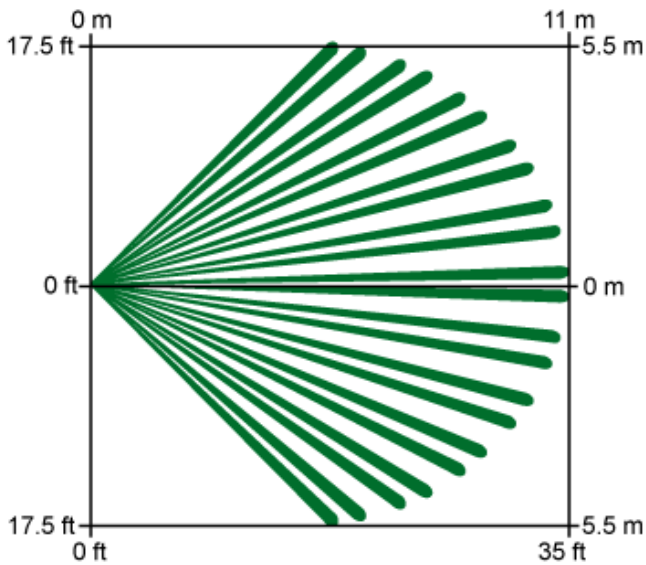
Certifications and Approvals

Country	Certification/Listing Number
Europe	CE
	Complies with EN50131-1 grade 2
Belgium	INCERT
Canada	UL ANSR7: Intrusion Detection Units Certified for Canada (ULCS306)
China	CCC 2004031901000035)
Czech Republic	NBU
Italy	IMQ
Poland	POL
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

Complies with EN50131 Environmental Class II, Security Grade 2

Relative Humidity:	0 to 85%, non-condensing
Temperature (operating):	29℃ to +49℃ (-20℉ to +120℉) *For UL Listed product installations, 0℃ to +49°C (+32℉ to +120℉)*

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

Blue Line ISM-BLP1 Passive-infrared Detector	ISM-BLP1
Hardware 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
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 Mounts on a single-gang box and allows rotation of a detector. Wires are hidden inside.	B328

Ordering Information

B335-3 Low-profile Swivel-mount Bracket 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.	B335-3
B338 Universal Ceiling Bracket Plastic swivel bracket for ceilings. The vertical pivot range is +7° to -16°; the horizontal pivot range is ±45°.	B338