

# Blue Line P1 Passive-Infrared Detector



Security Systems



The BLP1 detector uses a Fresnel lens to provide superior response to intruders. The ease of installation and flexible mounting options provide state-of-the-art detection every time.

**Features**

- First Step Processing (FSP)
- Small, unobtrusive two-piece design
- Comfortable wiring access with plug-in terminals
- Easy to install with flexible mounting options
- No range or height adjustments
- 35 ft (11 m) broad coverage
- Draft and insect immunity
- Temperature compensation
- Optional camera modules

**Functions**

**Signal processing**  
First Step Processing (FSP) allows virtually instant response to human targets without false alarms caused by other sources. By adjusting its sensitivity based upon signal amplitude, polarity, slope and timing, FSP eliminates the need for the installer to select the sensitivity level for the application.

**Test features**  
The externally-visible alarm LED may be disabled after installation.

**Draft and insect immunity**  
The sealed optical chamber provides immunity to drafts and insects.

**Temperature compensation**  
The sensor adjusts its sensitivity to maintain its ability to identify human intruders at critical temperatures.

**Listings, Certifications, and Approvals**

| Country | Certification/Listing Number            |
|---------|-----------------------------------------|
| Europe  | CE                                      |
| US      | ANSR: Intrusion Detection Units (UL639) |

**BOSCH**

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Application Information

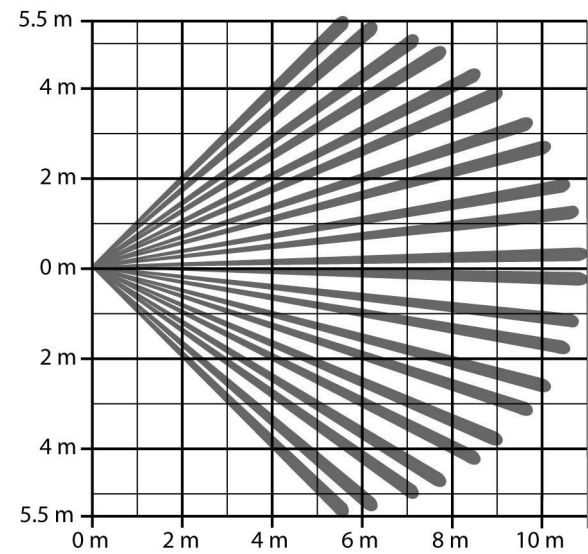
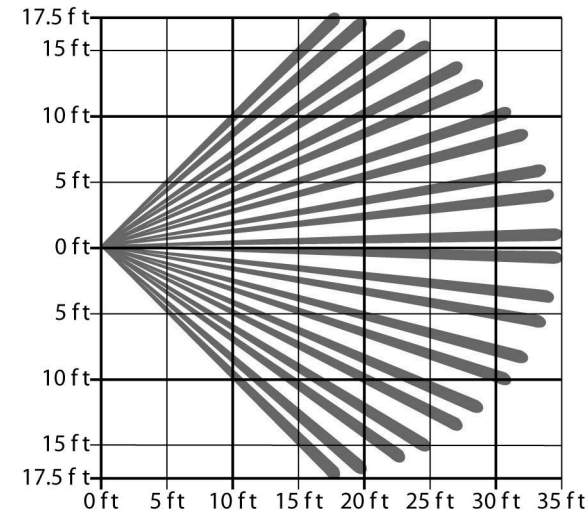
Coverage Patterns

Coverage Pattern Legend

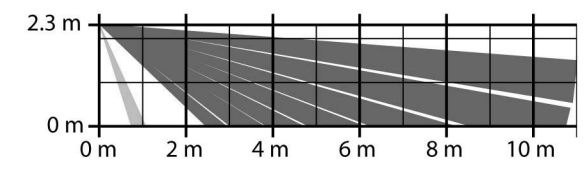
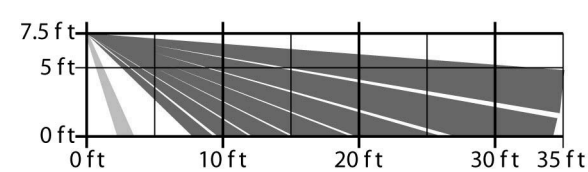
- PIR pattern
- Look Down Zones

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

Top View



Side View



Mounting

The recommended mounting height is 7.5 ft to 9 ft (2.25 m to 2.74 m).

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 a corner (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.*

Technical Specifications

| BLP1 Specifications                          |                                                                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Enclosure Design                             |                                                                                                                                      |
| Color:                                       | white                                                                                                                                |
| Dimensions (HxWxD):                          | 4.2 in. x 2.4 in. x 1.9 in.<br>(10.7 cm x 6.1 cm x 4.8 cm)                                                                           |
| Material:                                    | High-impact ABS plastic                                                                                                              |
| Environmental Considerations                 |                                                                                                                                      |
| Relative Humidity:                           | 0 to 95%, noncondensing                                                                                                              |
| Operating Temperature:                       | -20°F to +120°F (-29°C to +49°C)<br><i>For UL Listed product installations, +32°F to +120°F (0°C to +49°C)</i>                       |
| Outputs                                      |                                                                                                                                      |
| Digital Alarm:                               | 5 V normally, ground for 4 seconds during alarm.                                                                                     |
| Relay:                                       | Solid state, supervised Form A normally-closed (NC) contacts rated for 125 mA at 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):                         | 9 VDC to 15 VDC                                                                                                                      |
| 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.                                             |
| Order Number                                 | BLP1                                                                                                                                 |

Hardware Accessories

B328-3 Gimbal Mount Bracket



A gimbal-mount bracket that allows the installer to rotate and swivel the detector. Shipped in packages of three.

B335-3 Low Profile Mount Bracket



A low-profile bracket that allows the installer to swivel the detector. Shipped in packages of three.

B338-3 Ceiling Mount Bracket



A bracket for ceiling-mounting the detector. Shipped in packages of three.

BLA1-CM Monochrome Camera Modules



Monochrome camera modules that snap onto the top of the BLP1 detector. A camera module measures (HxWxD) 2.2 in. x 2.4 in. x 1.85 in. (5.6 cm x 6.1 cm x 4.7 cm).  
**BLA1-CM-C: CCIR,**  
**BLA1-CM-E: EIA**

BLA1-CC Color Camera Modules



Color camera modules that snap onto the top of the BLP1 detector. A camera module measures (HxWxD) 2.2 in. x 2.4 in. x 1.85 in. (5.6 cm x 6.1 cm x 4.7 cm).  
**BLA1-CC-N: NTSC,**  
**BLA1-CC-P: PAL**