

Blue Line Q1 Quad Passive-Infrared Detector



Security Systems



The BLQ1 Quad PIR Detector employs two individual sensors that operate like two PIRs in one. Each sensor is processed separately and both must activate to cause an alarm.

Features

- Easy to install with flexible mounting options
- Dual sensor/quad element design (two separate pyro-electric elements)
- Small, unobtrusive two-piece design
- Comfortable wiring access with plug-in terminals
- Easy to install with flexible mounting options
- No range or height adjustments
- Eight detection layers including user-selectable look-down coverage zone
- Draft and insect immunity
- 35 ft (11 m) broad coverage
- Optional camera modules

Functions

First Step Processing (FSP)

First Step Processing allows virtually instant response to human targets without sacrificing false alarm immunity to 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. Each of the two PIR sensors is processed individually, and both must agree there is an alarm before the alarm relay is activated.

Test features

Externally visible alarm LED may be disabled after installation.

Tamper

The switch opens when the cover is removed.

Draft and insect immunity

The sealed optical chamber provides immunity to drafts and insects.

Listings, Certifications, and Approvals

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

BOSCH

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Application Information

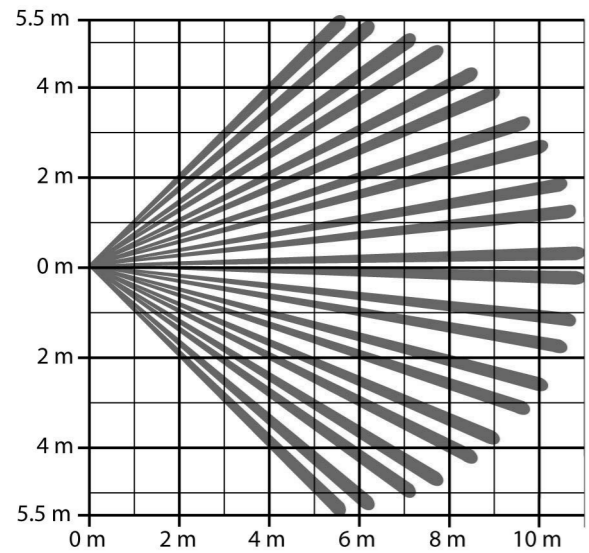
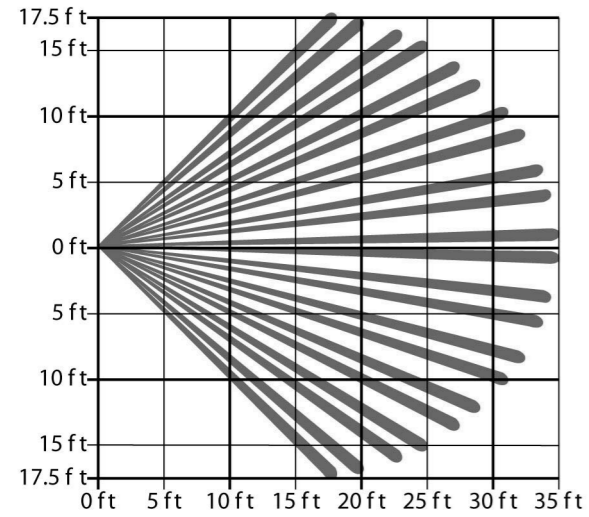
Coverage Patterns

Coverage Pattern Legend

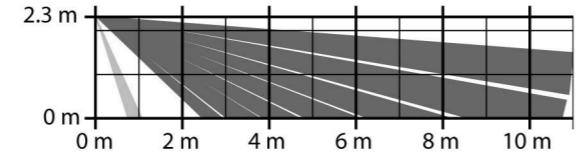
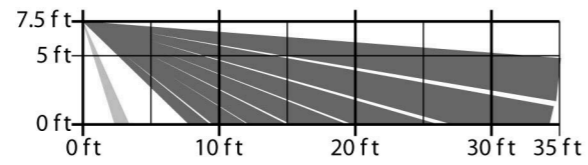
- PIR pattern
- Look Down Zones

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

BLQ1 Specifications

Enclosure Design

Color: white
 Dimensions (HxWxD): 5.2 in. x 2.4 in. x 1.9 in. (13.2 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)
For UL Listed product installations, +32°F to +120°F (0°C to +49°C)

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 2000 MHz at 30 v/m.

Order Number BLQ1

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 BLQ1 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 BLQ1 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