

Blue Line Q1 Quad Passive-Infrared Detector



Security Systems



- Dual sensor, quad element design (two separate pyroelectric elements)
- Installation-friendly two-piece design
- Easy wiring access with plug-in terminals
- No required range or height adjustments
- Eight detection layers including user-selectable look-down zone
- Draft and insect immunity
- 11 m x 11 m (35 ft x 35 ft) broad coverage
- Optional camera modules

The BLQ1 Quad PIR Detector uses two individual sensors that operate like two PIRs in one. Each sensor processes signals separately. Both must activate to cause an alarm. This increases reliability, because false alarm sources such as noise spikes and small animals are ignored.

Functions

First Step Processing (FSP)

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 of the two PIR sensors processes signals individually, and both sensors must agree there is an alarm before the alarm relay activates.

Test Features

Externally visible alarm LED can be disabled after installation.

Tamper

The switch opens when the cover is removed.

Draft and Insect Immunity

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

Certifications and Approvals

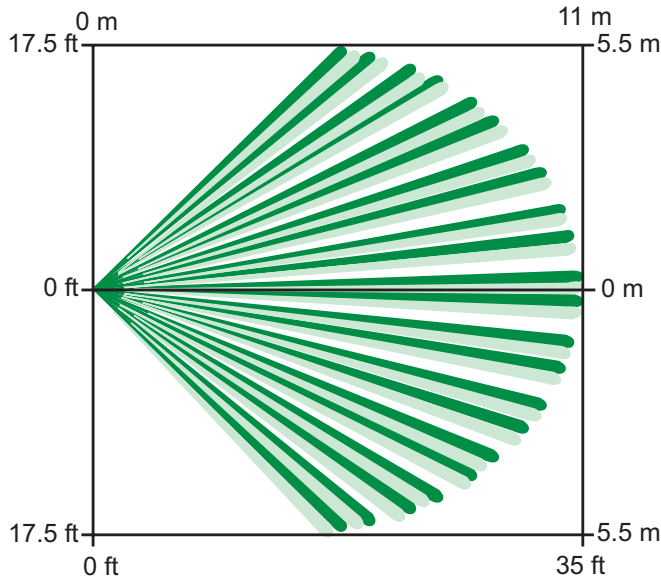
Country	Certification/Listing Number
Europe	CE
US	ANSR: Intrusion Detection Units (UL639)

Installation/Configuration Notes

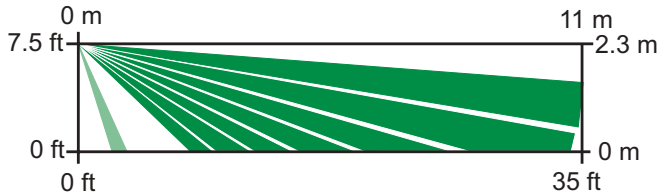
Coverage Patterns

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

Top View



Side View



Coverage Pattern Legend

- PIR pattern 1
- PIR pattern 2
- Look-down zone

Mounting

The recommended mounting height is 2,25 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 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

Radio Frequency Interference (RFI) No alarm or setup on critical frequencies in the range from 26 MHz to 2 GHz at 30 V/m.

Immunity

Enclosure Design

Color: white

Dimensions (H x W x D): 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

Environmental Considerations

Relative Humidity: 0 to 85%, non-condensing

Operating Temperature: -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)

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): 18 mA

Current (Standby): 10 mA maximum at 12 VDC

Voltage (Operating): 10 VDC to 14 VDC

Ordering Information

Blue Line Q1 Quad Passive-Infrared Detector	ISM-BLQ1
Blue Line A1-CC-N Color Camera Module (NTSC format)	ISM-BLA1-CC-N
Blue Line A1-CC-P Color Camera Module (PAL format)	ISM-BLA1-CC-P
Blue Line A1-CM-C Monochrome Camera Module (CCIR Format)	ISM-BLA1-CM-C
Blue Line A1-CM-E Monochrome Camera Module (EIA format)	ISM-BLA1-CM-E
Blue Line A1-LM Nightlight Module	ISM-BLA1-LM
Blue Line A1-SM Sounder Module	ISM-BLA1-SM
B328 Gimbal-mount Bracket	B328
B335-3 Low-profile Swivel-mount Bracket	B335-3
B338 Universal Ceiling Bracket	B338

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