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Blue Line Gen2 PIR Motion Detectors



BOSCH

- Wall to Wall coverage – Superior catch performance within 12 m x 12 m (40 ft x 40 ft) coverage area
- Pet-friendly Selectable model available – optimize installation for pet (20 kg [45 lb]) and non-pet applications
- Dynamic Temperature Compensation – superior catch performance in any environment
- Flexible Mounting Height, No Adjustments – reduce installation time and false alarms, improve catch performance
- Self-locking Enclosure with Integrated Bubble Level – reduce installation time

System overview

The Blue Line Gen2 PIR Motion Detectors (ISC-BPR2) use two Fresnel lenses designed to produce sharply-focused images throughout the field of view providing superior response to intruders. These lenses provide a high density (77 zone) 7-layer pattern, and the selectable lookdown lens provides an additional three lookdown zones. Easy installation and flexible mounting options provide state-of-the-art detection.
The pet-friendly (-WP) generates alarm signals for human intruders without generating false alarm signals for pets.

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, thus improving ease of installation and reliability.

Pet-friendly Selectivity (-WP models only)
The detector is defaulted with pet immunity turned on. The installer can turn pet immunity on or off based upon application requirements. When pet immunity is turned off, the detector provides superior catch performance identical to the non-pet models. When pet immunity is turned on, the detector can distinguish between signals caused by humans and signals caused by pets. It ignores signals caused by one or two pets up to 20 kg (45 lb) or numerous rodents.

Dynamic Temperature Compensation
The detector intelligently adjusts its sensitivity so that it can identify human intruders at virtually any temperature.

Wall-to-Wall Coverage
An improved lookdown zone and coverage range of 12 m x 12 m (40 ft x 40 ft) provide wall-to-wall coverage.

Self-locking Enclosure
The sliding self-locking enclosure has an integrated bubble level and custom gap-free, lift-gate style terminal blocks to make installation easier.

Sealed Optics and Electronics
The optics and electronics are assembled into the front enclosure and sealed with a protective cover to prevent damage during installation. The sealed optical chamber also prevents drafts and insects from affecting the detector.

Test Features

Externally visible alarm LED can be disabled after installation.

RFI and Impact Immunity

These detectors feature immunity to false alarms from external sources including radio frequency interference, “popcorn noise”, as well as physical impact. Through use of a high performance pyro (infrared) sensor with integrated signal filtering, the highest quality electrical components and design that produces the best-in-class signal to noise ratio, and sophisticated signal processing, these detectors are more robust than ever against false alarms.

Regulatory information

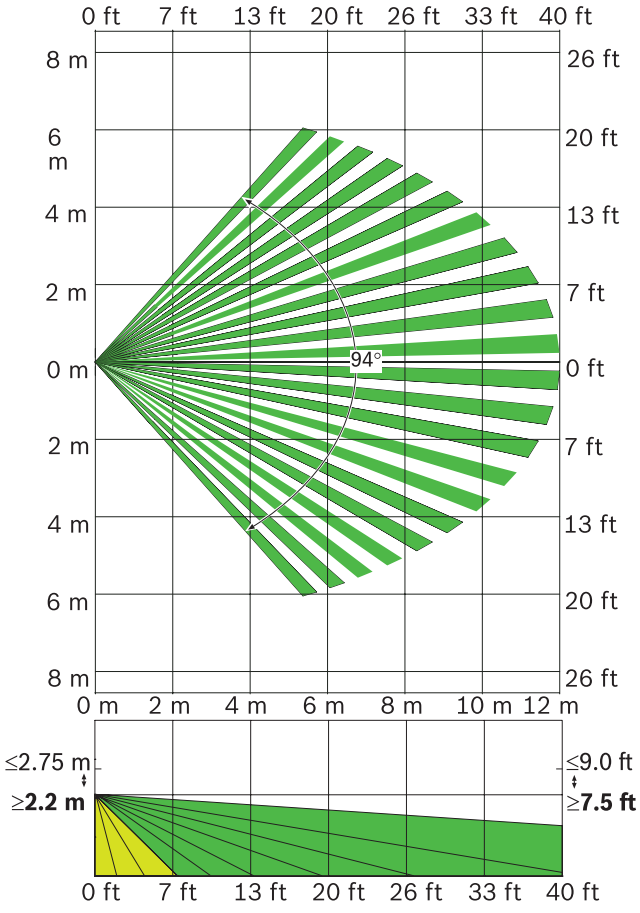
These detectors are also designed to comply with the following:

Europe	Complies with EN50131-2-2 Grade 2
	Complies with EN 50130-4
	Complies with EN50130-5 Class II
	Complies with EN60529, EN50102 (IP30, IK04)
	Complies with Directive 2011/65/EU - Restriction of the use of certain Hazardous Substances (RoHS)

Region	Regulatory compliance/quality marks	
Europe	CE	EMCD 2014/30/EU, LVD 2014/35/EU, RoHS [ISC-BPR2-W12, ISC-BPR2-WP12]
	EN50131	EN50131-2-2: EN 50130-4; EN50130-5 Class II; EN60529, EN50102 (IP30, IK04) [ISC-BPR2-W12]
	RoHS	Complies with Directive 2011/65/EU - Restriction of the use of certain Hazardous Substances (RoHS)
USA	FCC	Class B
	UL	UL639 – Standard for Intrusion-Detection Units ISC-BPR2-W12, ISC-BPR2-WP12
Canada	IC	Class B
	ULC	S306-03 - Standard for Intrusion Detection Units (ISC-BPR2-W12, ISC-BPR2-WP12)
Belgium	INCERT	B-B09-1009 Vb
France	AFNOR	2620200001A2 ISC-BPR2-W12
	AFNOR	2620200001B2 ISC-BPR2-WP12
Norway	FG	GODKJENNELSESBEVIS [ISC-BPR2-W12, ISC-BPQ2-W12, ISC-BPR2-WP12, ISC-BDL2-W12, ISC-BDL2-WP12]
Sweden	SBSC	26-118 ISC-BPR2-WP12
	SBSC	26-119 ISC-BPR2-W12

Installation/configuration notes

Coverage Patterns



12 m x 12 m (40 ft x 40 ft) coverage

Mounting

The recommended mounting height is 2.2 m to 2.75 m (7.5 ft to 9 ft) with no adjustments required.
Mount the motion detector level, both horizontally and vertically.
Mounting options:

- On a flat wall (surface, semi-flush), with the optional B335-3 Swiveling low-profile mount, or with the optional B328 Gimbal-mount Bracket
- In a corner (the junction of two perpendicular walls)
- On the ceiling with the optional B338 Universal Ceiling-mount Bracket

Technical specifications

Electrical

Current (standby/alarm):	7-10 mA at 12 VDC
Voltage (operating):	9 VDC to 15 VDC

Environmental

Pet Immunity[1]:	One or two pets up to 20 kg (45 lb) or numerous rodents.
Relative Humidity:	0 to 95%, non-condensing
Temperature (operating):	-20°C to +55°C (-4°F to +130°F) -10°C to +55°C (+14°F to +130°F) (EU)
IP Rating	IP30
Impact Protection	IK04

[1] Applies to the Pet Friendly models only and only when the Pet Immunity feature is turned on.

Mechanical

Color:	white
Dimensions:	105 mm x 61 mm x 44 mm (4.2 in. x 2.4 in. x 1.7 in.)
Material:	High-impact ABS plastic
Radio Frequency Interference (RFI) Immunity	No alarm or setup on critical frequencies in the range from 80 kHz to 6 GHz at field strengths less than 10 V/m.

Outputs

Relay:	Solid state, supervised, Form A normally-closed (NC) contacts rated for ≤35 mA, 25 VDC, <20 Ω closed
Tamper:	Normally-closed (NC) contacts (with cover on) rated for ≤35 mA, 25 VDC, PF=1 Connect tamper circuit to 24-hour protection circuit.

Ordering information

ISC-BPR2-W12 Motion detector, 40ft (12m)
Provides PIR, 12 m x 12 m (40 ft x 40 ft) coverage.
Order number **ISC-BPR2-W12 | F.01U.134.140 F.01U.364.870 F.01U.399.655 F.01U.413.359 F.01U.435.163**

ISC-BPR2-WP12 Motion detector, pet friendly 40ft (12m)
Provides Pet Friendly PIR, 12 m x 12 m (40 ft x 40 ft) coverage.
Order number **ISC-BPR2-WP12 | F.01U.134.143 F.01U.382.959 F.01U.399.653 F.01U.413.362 F.01U.435.171**

ISC-BPR2-W12-CHI Motion detector, 40ft (12m)
Provides PIR, 12 m x 12 m (40 ft x 40 ft) coverage. For use in China.
Order number **ISC-BPR2-W12-CHI | F.01U.134.142**

BPR2-WP12-6 Motion detector, pet 40ft (12m) 6pcs
Provides Pet Friendly PIR, 12 m x 12 m (40 ft x 40 ft) coverage. Multi-pack box with 6 detectors included.
Order number **BPR2-WP12-6 | F.01U.420.690**

Accessories

B328 Mounting bracket, gimbal
Mounts on a single-gang box and allows rotation of a detector. Wires are hidden inside.
Order number **B328 | 4.998.800.277**

B335-3 Mounting bracket, swivel, low profile
Swiveling, low-profile, universal bracket for wall mounting. The vertical swivel range is +10° to -20°, while the horizontal swivel range is ±25°.
Order number **B335-3 | 4.998.800.014**

B338 Mounting bracket, ceiling, universal
Swiveling universal bracket for ceiling mounting. The vertical swivel range is +7° to -16°, while the horizontal swivel range is ±45°.
Order number **B338 | 4.998.800.282**

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