Blue Line Gen2 TriTech Motion Detectors

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BOSCH

Invented for life

- ▶ Pet-friendly Selectable model available – optimize installation for pet (45 kg [100 lb]) and non-pet applications
- ▶ Dynamic Temperature Compensation – superior catch performance in any environment
- ▶ Microwave Noise Adaptive processing – reduce false alarms from repetitive sources
- ▶ Wall to Wall Coverage – superior catch performance
- ▶ Flexible Mounting Height, No Adjustments – reduce installation time and false alarms, improve catch performance

The Blue Line Gen2 TriTech Motion Detectors (ISC-BDL2) use a combination of passive infrared (PIR) and microwave detection technologies with advanced signal processing. The pet-friendly (-WP) models generate alarms for human intruders without generating false alarms for pets. These small unobtrusive detectors are simple to install and do not need field adjustments.

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 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 45 kg (100 lb) or numerous rodents.

Microwave Noise Adaptive Processing
Microwave Noise Adaptive Processing adjusts to background disturbances, reducing false alarms without sacrificing intruder detection.

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.

Certifications and approvals

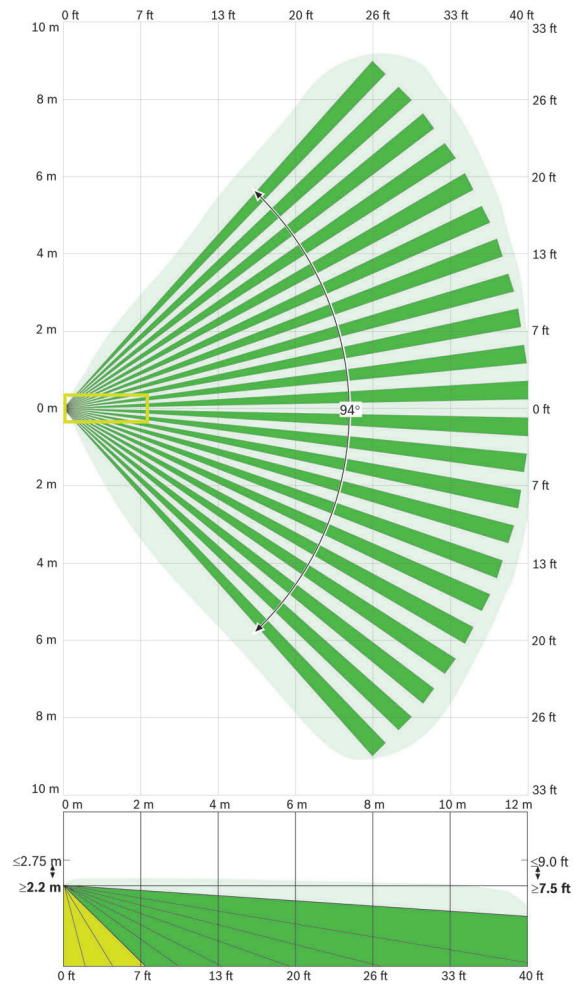These detectors are also designed to comply with the following:

Europe	Complies with EN50131-2-4 Grade 2
	Complies with EN50130-5 Class II
	Complies with EN60529, EN50102 (IP30, IK04)
	Complies with Directive 2002/95/EC - Restriction of the use of certain Hazardous Substances (RoHS)
China	Complies with CCC GB10408.1 and GB10408.9

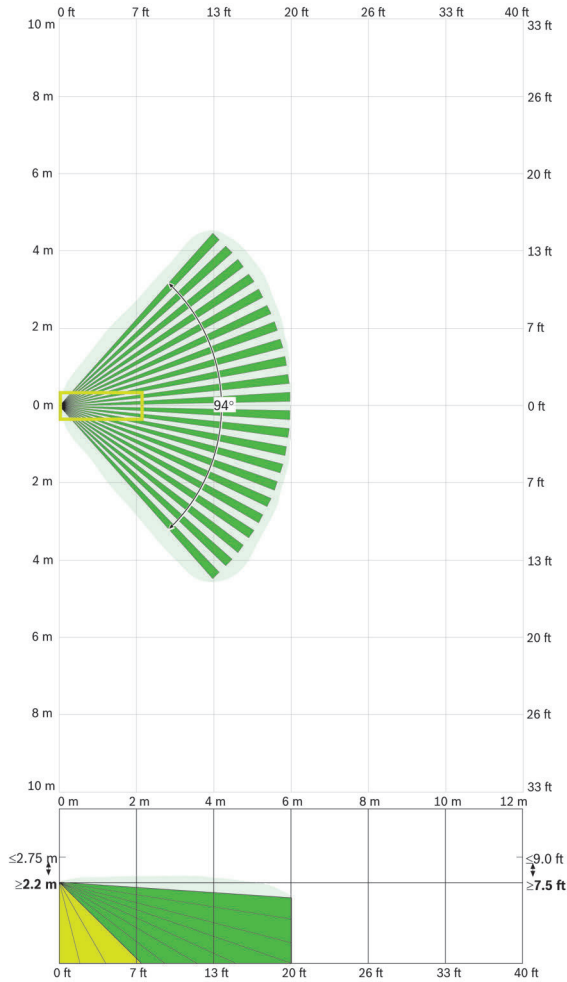| Region	Certification	
Norway	FG	ISC-BDL2-WP6, ISC-BDL2-W12, ISC-BDL2-WP12
Europe	CE	ISC-BDL2-WP12H, ISC-BDL2-W12H
	CE	ISC-BDL2-WP6G, ISC-BDL2-WP12G, ISC-BDL2-W12G
	EN50131	ISC-BDL2-W12G
	EN50131	ISC-BDL2-W12H
	EN50131	ISC-BDL2-WP12G
	EN50131	ISC-BDL2-WP12H
	EN50131	ISC-BDL2-WP6G
Belgium	INCERT	ISC-BDL2-W12G, ISC-BDL2-WP12G, ISC-BDL2-WP6G
	INCERT	ISC-PDL1-W18G, ISC-PDL1-WC30G, ISC-PDL1-WA18x; ISC-BDL2-WP12G
USA	UL	ISC-BDL2-W12G, ISC-BDL2-WP12G, ISC-BDL2-WP6G
	UL	UL 639 - Standard for Intrusion Detection Units
	FCC	ISC-BDL2-W12G, ISC-BDL2-WP12G, ISC-BDL2-WP6G
Canada	ULC	CAN/ULC S306-03 - Canadian Standard for Intrusion Detection Units
	IC	ISC-BDL2--W12G, ISC-BDL2-WP12G, ISC-BDL2-WP6G
France	AFNOR	ISC-BDL2-W12G
	AFNOR	ISC-BDL2-W12H

Region	Certification	
	AFNOR	ISC-BDL2-WP12G
	AFNOR	ISC-BDL2-WP12H
	AFNOR	ISC-BDL2-WP6G
China	CCC	2010031901000323 [-CHI]
Sweden	INTYG	ISC-BDL2-W12G
	INTYG	ISC-BDL2-WP12G
	INTYG	ISC-BDL2-WP6G
Brazil	ANATEL	ISC-BDL2-W12G, ISC-BDL2-WP12G, ISC-BDL2-WP6G
the Netherlands	NCP	ISC-BPR2-W12, ISC-BPR2-WP12, ISC-BPQ2-W12, ISC-BDL2-W12G, ISC-BDL2-WP12G, ISC-BDL2-WP6G

Installation/configuration notes

Coverage Patterns

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

6 m x 6 m (20 ft x 20 ft) coverage (ISC-BDL2-WP6G, ISC-BDL2-WP6G-CHI)

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

Quant.	Component
1	Detector
1	Hardware pack • 2 anchors (#6, #8 x 7/8) • 2 screws (#6 x 1.25) • 1 cable tie (2.5 mm)
1	Literature - Installation Guide

Technical specifications

Electrical

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

Environmental

Environment	Complies with EN50130-5 Class II
Pet Immunity[1]:	One or two pets up to 45 kg (100 lb) or numerous rodents
Relative Humidity:	0 to 95%, non-condensing *For UL Listed product installations, 0 to 85%, non-condensing*
Temperature (operating):	-30℃ to +55℃ (-20°F to +130°F) *For UL Listed product installations, 0℃ to +49℃ (+32°F to +120°F)*

[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 150 kHz to 2 GHz at field strengths less than 30 V/m.

Outputs

Relay:	Solid state, supervised, Form A normally-closed (NC) contacts rated for ≤100 mA, 25 VDC, 2.5 W, <20 Ω closed
Tamper:	Normally-closed (NC) contacts (with cover on) rated for ≤100 mA, 25 VDC, 2.5 W Connect tamper circuit to 24-hour protection circuit.

Ordering information

ISC-BDL2-W12G Blue Line Gen 2 TriTech Motion Detector
Provides PIR and microwave, 12 m x 12 m (40 ft x 40 ft) coverage. Frequency: 10.525 GHz
Order number **ISC-BDL2-W12G**

ISC-BDL2-W12H Blue Line Gen2 TriTech Motion Detector
Provides PIR and microwave, 12 m x 12 m (40 ft x 40 ft) coverage. For use in France and the United Kingdom. Frequency: 10.588 GHz
Order number **ISC-BDL2-W12H**

ISC‑BDL2‑WP6G Blue Line Gen2 Pet Friendly TriTech Motion Detector
Provides Pet Friendly PIR and microwave, 6 m x 6 m (20 ft x 20 ft) coverage. Frequency: 10.525 GHz
Order number **ISC‑BDL2‑WP6G**

ISC‑BDL2‑WP12G Blue Line Gen2 Pet Friendly TriTech Motion Detector
Provides Pet Friendly PIR and microwave, 12 m x 12 m (40 ft x 40 ft) coverage. Frequency: 10.525 GHz
Order number **ISC‑BDL2‑WP12G**

ISC‑BDL2‑WP12H Blue Line Gen2 Pet Friendly TriTech Motion Detector
Provides Pet Friendly PIR and microwave, 12 m x 12 m (40 ft x 40 ft) coverage. For use in France and the United Kingdom. Frequency: 10.588 GHz
Order number **ISC‑BDL2‑WP12H**

ISC‑BDL2‑WP6G‑CHI Blue Line Gen2 Pet Friendly Tri‑Tech Motion Detector
Provides Pet Friendly PIR and microwave, 6 m x 6 m (20 ft x 20 ft) coverage. For use in China. Frequency: 10.525 GHz
Order number **ISC‑BDL2‑WP6G‑CHI**

ISC‑BDL2‑WP12G‑CHI Blue Line Gen2 Pet Friendly Tri‑Tech Motion Detector
Provides Pet Friendly PIR and microwave, 12 m x 12 m (40 ft x 40 ft) coverage. For use in China. Frequency: 10.525 GHz
Order number **ISC‑BDL2‑WP12G‑CHI**

Accessories

B328 Gimbal‑mount Bracket
Mounts on a single‑gang box and allows rotation of a detector. Wires are hidden inside.
Order number **B328**

B335‑3 Swiveling low‑profile mount
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**

B338 Universal Ceiling‑mount Bracket
Swiveling universal bracket for ceiling mounting. The vertical swivel range is +7° to -16°, while the horizontal swivel range is ±45°.
Order number **B338**