

# 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 Doppler radar detection 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 lockdown 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**

E-models feature improved 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.

**Improved Resistance to Sabotage**

E-model detectors are now tested and approved to the EN50131-5-3 requirements for immunity to interference from external radio frequency sources. Detection performance and false alarm immunity are ensured when in the presence of such sources that could degrade the performance of detectors that are not approved to this standard.

**Certifications and approvals**

These detectors are also designed to comply with the following:

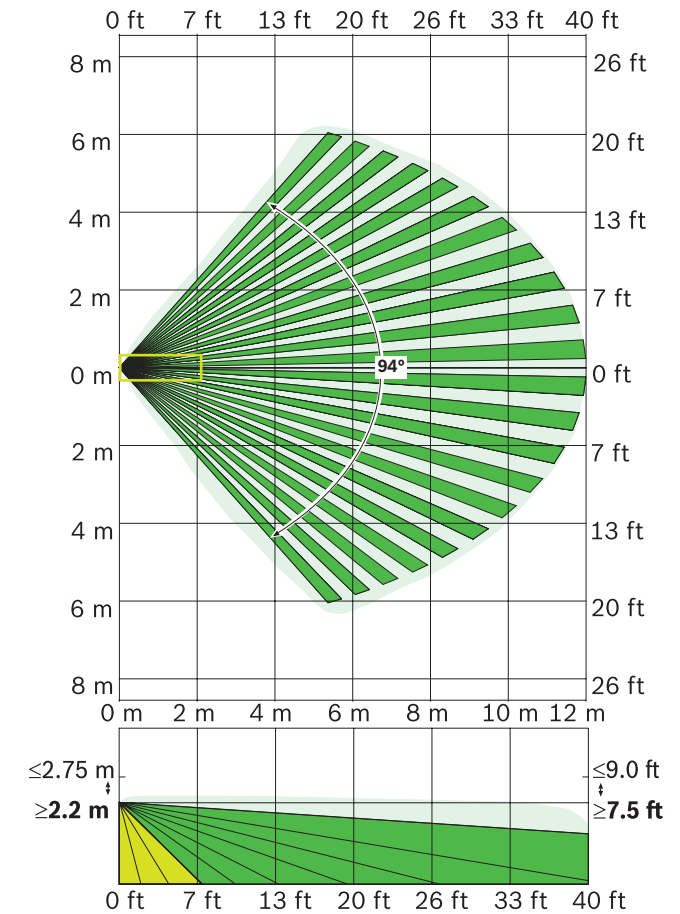
- Europe Complies with Directive 2002/95/EC - Restriction of the use of certain Hazardous Substances (RoHS)
- China Complies with CCC GB10408.1 and GB10408.9

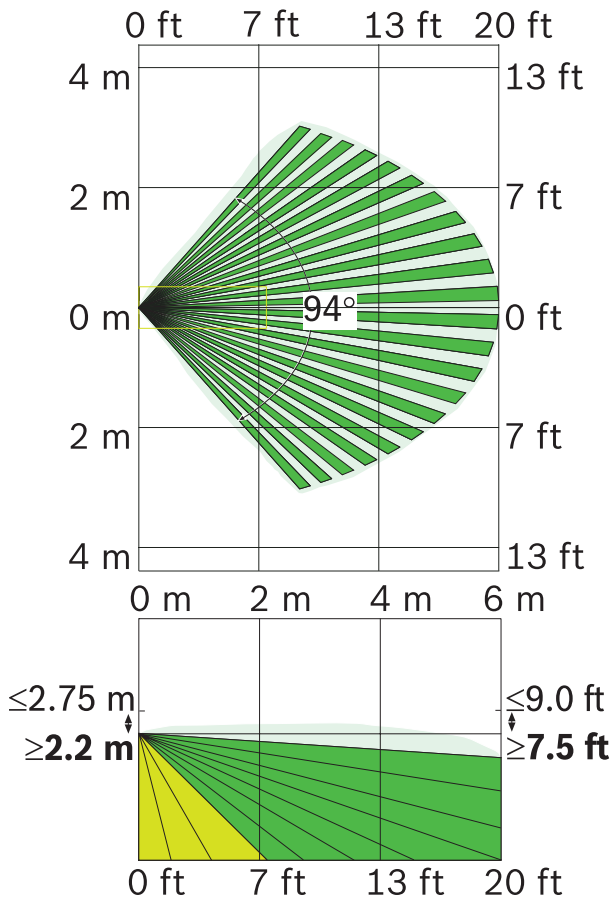
Region	Regulatory compliance/quality marks	
Europe	CE	2014/53/EU (RED) 2011/65/EU (RoHS) (EU 2015/863 amending Annex II to Directive 2011/65/EU [Notified body 0700])   [ISC-BDL2-W12GE, ISC-BDL2-WP12GE, ISC-BDL2-W12HE, ISC-BDL2-WP12HE]
	EN50131	EN50131-2-4 Grade 2 Environmental Class II (G models) I (H models)
Belgium	INCERT	2800200003D1
	INCERT	ANPI-ID-0004-0002 ISC-BDL2-W12GE, ISC-BDL2-WP12GE
Sweden	SBSC	20-43 Intyg_20-43_ISC-BDL2-W12GE_EN
	SBSC	20-44 SBSC_ISC-BDL2-WP12GE
USA	UL	[ISC-BDL2-W12G, ISC-BDL2-WP12G, ISC-BDL2-WP6G]
	UL	20190115; UL639 – Standard for Intrusion-Detection Units

Region	Regulatory compliance/quality marks	
	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	EN50131-2-4 Grade 2, NF324-H58 + RTC 50131-2-4 ISC-BDL2-W12HE - Certificate # 2820200003A1 ISC-BDL2-WP12HE - Certificate # 2820200003B1
China	CCC	2010031901000323 [ISC-BDL2-WP6G-CHI, ISC-BDL2-WP12G-CHI, ISC-BDL2-CB12G-CHI]

**Installation/configuration notes**

**Coverage Patterns**





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

**Environmental**

Pet Immunity <sup>1</sup>	One or two pets up to 45 kg (100 lb) or numerous rodents
Relative Humidity	0 to 95%, non-condensing <i>For UL Listed product installations</i>

*0 to 85%, non-condensing*

Temperature (operating)	G models = - 20°C to + 55°C (- 4°F to + 131°F) GE models = - 10°C to + 55°C HE models = + 5°C to + 40°C UL/ C-UL = 0°C to + 49°C (+32°F to + 120°F)
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<sup>1</sup> 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

**Outputs**

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

## Ordering information

### ISC-BDL2-W12G Motion detector, 40ft (12m)

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-WP6G Motion detector, pet friendly, 20ft (6m)

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 Motion detector, pet friendly 40ft (12m)

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-WP6G-CHI Motion detector, pet friendly, 20ft (6m)

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 Motion detector, pet friendly 40ft (12m)

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**

### ISC-BDL2-W12GE Motion detector, 40ft (12m)

Provides PIR and microwave, 12 m x 12 m (40 ft x 40 ft) coverage. Frequency: 10.510 to 10.580 GHz

Order number **ISC-BDL2-W12GE**

### ISC-BDL2-W12HE Motion detector, 12m, FR

Provides PIR and microwave, 12 m x 12 m (40 ft x 40 ft) coverage. For use in France. Frequency: 10.570 to 10.610 GHz

Order number **ISC-BDL2-W12HE**

### ISC-BDL2-WP12GE Motion detector, pet friendly 40ft (12m)

Provides Pet Friendly PIR and microwave, 12 m x 12 m (40 ft x 40 ft) coverage. Frequency: 10.510 to 10.580 GHz

Order number **ISC-BDL2-WP12GE**

### ISC-BDL2-WP12HE Motion detector, pet friendly, 12m, FR

Provides Pet Friendly PIR and microwave, 12 m x 12 m (40 ft x 40 ft) coverage. For use in France. Frequency: 10.570 to 10.610 GHz

Order number **ISC-BDL2-WP12HE**

## Accessories

### B328 Mounting bracket, gimbal

Mounts on a single-gang box and allows rotation of a detector. Wires are hidden inside.

Order number **B328**

### 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**

### 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**

## Represented by:

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