



# Blue Line Gen2 TriTech Motion Detectors



- ▶ **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
- ▶ **Self-locking Enclosure with Integrated Bubble Level** – reduce installation time

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**

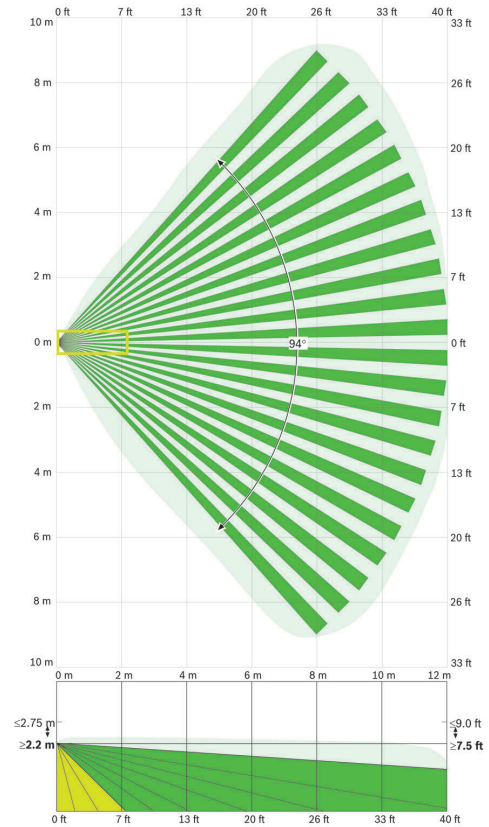
Region	Certification	
Europe	CE	2004/108/EC: EMC Directive, 2006/95/EC: Low-Voltage Directive, and 1999/5/EC Radio Equipment and Telecommunications Terminal Equipment (R&TTE) [-WP6G, WP12G, and W12G]
Belgium	INCERT	B-509-0052/b [ISC-BDL2-W12G, -WP12G, -WP6G] B-509-0052/c [ISC-PDL1-W18G, -WC30G, -WA18x; ISC-BDL2-WP12G]
Norway	FG	GODKJENNELSESBEVIS [-WP6, -W12, -WP12]
USA	UL	cULus - ANSR: Intrusion-detection Units (UL 639), ANSR7: Intrusion-detection Units Certified for Canada (ULC-S306) [-W12G, -WP12G, -WP6G]
	FCC	T3X-BLG2 [-W12G, -WP12G, -WP6G]
Canada	IC	1249A-BLG2 [-W12G, -WP12G, -WP6G]
France	AFNOR	2820200003A0 [-W12H] 2820200003D0 [-WP12G] 2820200003E0 [-WP6G]
	CCC	2010031901000323 [-CHI]
	INTYG	11-266 [-W12G] 11-264 [-WP6G] 11-265 [-WP12G]
Brazil	ANATEL	2140-10-1855 [-W12G, -WP12G, -WP6G]
the Netherlands	NCP	2011062 [ISC-BPR2-w12, -WP12, ISCBPQ2-W12, ISC-BDL2-W12G, ISC-BDL2-WP12G, ISC-BDL2-WP6G]

These detectors are also designed to comply with the following:

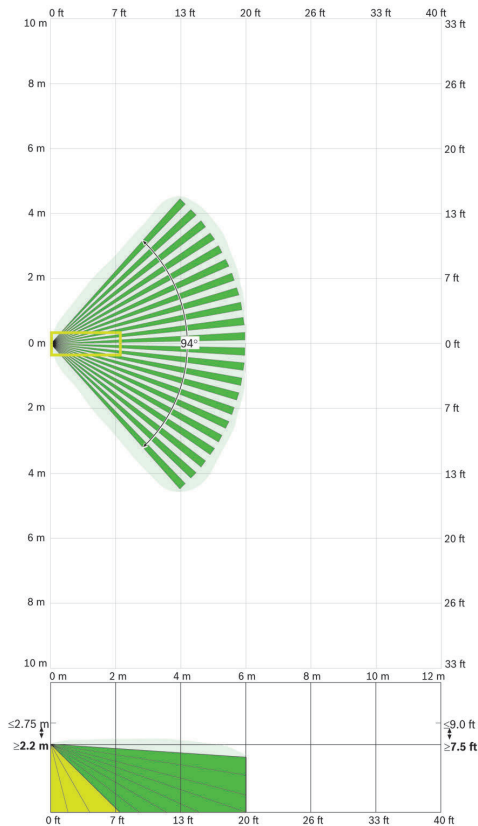
Europe	Complies with EN50131-2-4 Grade 2
	Complies with EN50130-5 Class II
	Complies with EN60529, EN50102 (IP30, IK04)
	Complies with Directive 2002/95/EC - Restriction of the use of certain Hazardous Substances (RoHS)
China	Complies with CCC GB10408.1 and GB10408.9

**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 (7.2 ft to 9 ft) with no adjustments required.

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).
- On the ceiling with the optional B338 Ceiling-mount Bracket.

### Parts Included

Quant.	Component
1	Detector
1	Hardware pack <ul style="list-style-type: none"> <li>• 2 anchors (#6, #8 x 7/8)</li> <li>• 2 screws (#6 x 1.25)</li> <li>• 1 cable tie (2.5 mm)</li> </ul>
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<sup>1</sup>: 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°C to +55°C (-20°F to +130°F)  
For UL Listed product installations, 0°C to +49°C (+32°F to +120°F)

<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

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

**Blue Line Gen2 TriTech Motion Detector (12 m [40 ft] coverage, 10.525 GHz)**      **ISC-BDL2-W12G**

For use in much of Asia, Australia and New Zealand, much of Europe, much of Latin America, the US, and Canada

**Blue Line Gen2 TriTech Motion Detector (12 m [40 ft] coverage, 10.588 GHz)**      **ISC-BDL2-W12H**

For France and the United Kingdom

**Blue Line Gen2 Pet-Friendly TriTech Motion Detector (6 m [20 ft] coverage, 10.525 GHz)**      **ISC-BDL2-WP6G**

For use in much of Asia, Australia and New Zealand, much of Europe, much of Latin America, the US, and Canada

**Blue Line Gen2 Pet-Friendly TriTech Motion Detector (12 m [40 ft] coverage, 10.525 GHz)**      **ISC-BDL2-WP12G**

For use in much of Asia, Australia and New Zealand, much of Europe, much of Latin America, the US, and Canada

**Blue Line Gen2 Pet-Friendly TriTech Motion Detector (12 m [40 ft] coverage, 10.588 GHz)**      **ISC-BDL2-WP12H**

For France and the United Kingdom

**Blue Line Gen2 Pet-Friendly TriTech Motion Detector for China (6 m [20 ft] coverage, 10.525 GHz)**      **ISC-BDL2-WP6G-CHI**

For China

**Blue Line Gen2 Pet-Friendly TriTech Motion Detector for China (12 m [40 ft] coverage, 10.525 GHz)**      **ISC-BDL2-WP12G-CHI**

For China

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