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 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
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

<table>
<thead>
<tr>
<th>Region</th>
<th>Regulatory compliance/quality marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russia</td>
<td>GOST TC RUJ/NL.MH09.B.00334 EAC</td>
</tr>
<tr>
<td></td>
<td>UL 20190115; UL639 – Standard for Intrusion-Detection Units</td>
</tr>
<tr>
<td>Canada</td>
<td>ULC CAN/ULC S306-03 - Canadian Standard for Intrusion Detection Units</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current (alarm/standby)</td>
<td>10 mA at 12 VDC</td>
</tr>
<tr>
<td>Voltage (operating)</td>
<td>9 VDC to 15 VDC</td>
</tr>
</tbody>
</table>

Environmental

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pet Immunity(^1)</td>
<td>One or two pets up to 45 kg (100 lb) or numerous rodents</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>0 to 95%, non-condensing</td>
</tr>
</tbody>
</table>

Mechanical

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>white</td>
</tr>
<tr>
<td>Dimensions</td>
<td>105 mm x 61 mm x 44 mm (4.2 in. x 2.4 in. x 1.7 in.)</td>
</tr>
<tr>
<td>Material</td>
<td>High-impact ABS plastic</td>
</tr>
<tr>
<td>Radio Frequency</td>
<td>No alarm or setup on critical frequencies in the range from 150 kHz to 2GHz at field strengths less than 30V/m.</td>
</tr>
<tr>
<td>Interference (RFI) Immunity</td>
<td>No alarm or setup on critical frequencies in the range from 150 kHz to 2GHz at field strengths less than 30V/m.</td>
</tr>
</tbody>
</table>

Outputs

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relay</td>
<td>Solid state, supervised, Form A normally-closed (NC) contacts rated for ≤100 mA, 25 VDC, 2.5 W, &lt;20 Ω closed</td>
</tr>
<tr>
<td>Tamper</td>
<td>Normally-closed (NC) contacts (with cover on) rated for ≤100 mA, 25 VDC, 2.5 W. Connect tamper circuit to 24-hour protection circuit.</td>
</tr>
</tbody>
</table>

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\(^1\) Applies to the Pet Friendly models only and only when the Pet Immunity feature is turned on.
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

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