Commercial Series TriTech Motion Detectors

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Invented for life

▶ TriTech - Passive infrared and microwave Doppler radar detection with First Step Processing for superior catch performance and best-in-class false alarm immunity

▶ Microwave Noise Adaptive Processing - Avoids false alarms from repetitive sources

▶ Integrated EOL resistors - Reduces installation time and complexity

▶ Flexible mounting height, no adjustments - Reduces installation time and false alarms, improves catch performance

▶ Self-locking enclosure with bi-axial bubble level for faster installation

The Commercial Series TriTech motion detectors are designed to ensure reliable catch performance and false alarm immunity in commercial applications. ISC-CDL1-W15x detectors use a combination of passive infrared (PIR) and microwave Doppler radar detection technologies with advanced signal processing. New features such as integrated, selectable end-of-line resistors, a self-locking enclosure with integrated bubble level, and removable lift gate style terminal strip make installation of Commercial Series detectors easier and more reliable.

Functions

First Step Processing
First Step Processing (FSP) almost instantly responds to intruders without producing false alarms from other sources. FSP adjusts the detector's sensitivity based on signal amplitude, polarity, slope, and timing. The installer can select the sensitivity level, thus improving reliability.

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

Integrated jumper selectable EOL resistors
The integrated EOL resistors simplify the wiring process and reduce installation time.

Flexible mounting heights
No adjustments required when mounted from 2.3 to 2.75m (7.5 to 9.0 ft). Reduce installation time and false alarms while improving catch performance.

Self-locking enclosure with removable terminal strip
The sliding, self-locking enclosure has an integrated bi-axial bubble level and custom gap-free, lift-gate style terminal strip to make installation easier and more reliable.

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

Small animal immunity
The small animal immunity feature reduces false alarms from small animals up to 4.5 kg (10 lbs) that may move on the floor within the coverage area of the detector.

Protected, 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.

Switch configuration
The following functions are selectable using switches:
- Alarm LED On and Off
- PIR sensitivity

Wall-to-wall coverage
A user-selectable integrated lookdown zone and coverage range of 15 m x 15 m (50 ft x 50 ft) provide wall-to-wall coverage.

Certifications and approvals

Region	Agency	Certification
USA	UL	-W15G: Intrusion Detection Unit Type: S
	FCC	FCC Part 15 Class B
Canada	cUL	-W15G: Intrusion Detection Unit Type: S
	IC	1249A-CDL1
Europe	EN Standards	EN50131-2-4 Grade 2 EN50130-5 Environmental Class II IP41 / IK04 (EN60529, EN 62262)
France	AFNOR/CNPP/ NFA2P	ISC-CDL1-W15G Cert # 2800200015 NF&A2P Grade 2
		ISC-CDL1-WA15H Cert # 2830200013 RTC 50131-2-4 Grade 2
		NF-324-H58 – 110P2 AFNOR Certification: www.afnor.org CNPP Cert.: www.cnpp.com

Region	Agency	Certification
		Sécurité contre la fraude: Autosurveillance à l'ouverture et à l'arrachement, Immunité champ magnétique.
Australia	ACMA	RCM

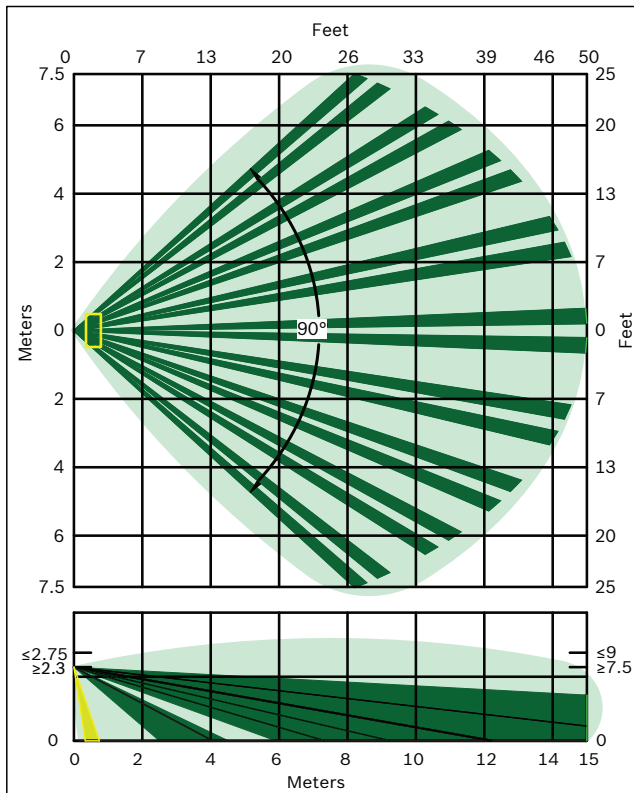| Region	Certification	
Europe	CE	2014/30/EU EMC Directive (EMC); 2014/35/EU Low-Voltage Directive (LVD); 1999/5/EC Radio equipment and Telecommunications Terminal Equipment (R&TTE); 2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment(RoHS) [-W15G, -W15H, -W15K, -WA15G, -WA15H, -WA15K]
Sweden	SBSC	15-475 [-W15G] Alarm Class 1/2, Environmental Class II (Larmklass 1/2 miljöklass II)
USA	UL	20151006-BP1448 [-WA12G, -W15G, -WA15G]
France	AFNOR	2800200015A0 [-W15G]
	AFNOR	2820200013A0 [-W15H]

Installation/configuration notes

Mounting
The recommended mounting height is 2.3 m to 2.75 m (7.5 ft to 9 ft) with no adjustments required.
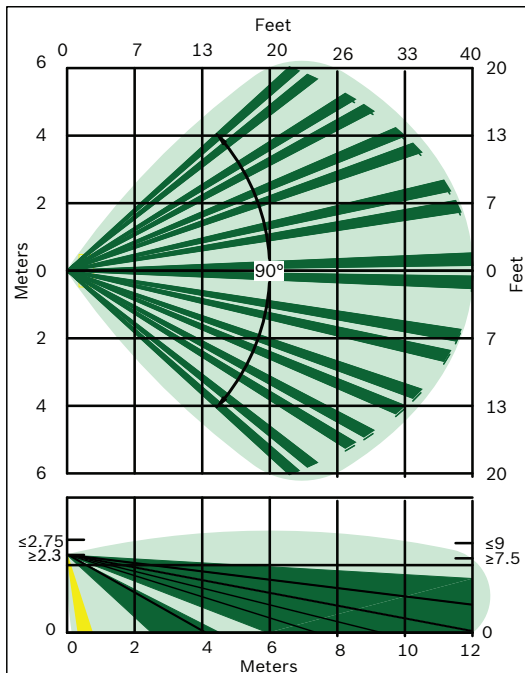The detector can be mounted:
- In a corner by utilizing the beveled edges of the detector base.
- On a flat wall by securing the detector base directly to the wall.
- On a flat wall using the optional B328 Gimbal-mount Bracket, or B335 Swivel-mount Bracket.
- On the ceiling with the optional B338 Ceiling-mount Bracket.

Coverage patterns

ISC-CDL1-WA15x 15 m x 15 m (50 ft x 50 ft) coverage

ISC-CDL1-WA12x 12 m x 12 m (40 ft x 40 ft) coverage

Parts included

Quant.	Component
1	Detector
1	Hardware pack • 2 jumpers • 2 anchors • 2 screws • 1 cable tie
1	Literature- Installation Guide

Technical specifications

Properties

Dimensions	120 mm x 70 mm x 55 mm (4.7 in. x 2.75 in. x 2.2 in.)
Material	High-impact ABS plastic
Color	White
Terminal wire size	Ø 0.40 mm to 1.29 mm (26 AWG to 16 AWG) (UL: 22 AWG to 16 AWG)

Environmental

Environment	Complies with EN50130-5 Environmental Class II
Relative humidity	93% non-condensing
Temperature (operating)	-30°C to +55°C (-22°F to +130°F) UL: 0°C to +49°C (+32°F to +120°F) AFNOR/CNPP: -10°C to +55°C

Electrical

Current	Standby: <15 mA Alarm: ≤16 mA maximum
Voltage (operating)	9 VDC to 15 VDC
Radio Frequency Interference (RFI) Immunity	No alarm or setup on critical frequencies in the range from 150 kHz to 2.7 GHz at field strengths less than 10 V/m.

Outputs

Alarm relay, trouble relay	Solid state, supervised, normally-closed (NC) contacts rated for <100 mA, 25 V, 2.5W
Tamper	Supervised, normally-closed (NC) contacts rated for <100 mA, 25 V, 2.5W
End-of-line resistors	Alarm: 1.0 k, 2.2 k Tamper: 1.0 k, 2.2 k, 33 k

Ordering information

ISC-CDL1-W15G Commercial Series TriTech Motion Detector
Provides PIR and microwave Doppler radar detection, 15 m x 15 m (50 ft x 50 ft) coverage pattern.
Frequency: 10.525 GHz.
Order number **F01U297384**

ISC-CDL1-W15G-CHI Commercial Series TriTech Motion Detector
Provides PIR and microwave Doppler radar detection, 15 m x 15 m (50 ft x 50 ft) coverage pattern.
Frequency: 10.525 GHz. For use in China.
Order number **F01U297386**

ISC-CDL1-W15H Commercial Series TriTech Motion Detector
Provides PIR and microwave Doppler radar detection, 15 m x 15 m (50 ft x 50 ft) coverage pattern.
Frequency: 10.588 GHz. For use in France and the United Kingdom.
Order number **F01U297379**

ISC-CDL1-W15K Commercial Series TriTech Motion Detector
Provides PIR and microwave Doppler radar detection, 15 m x 15 m (50 ft x 50 ft) coverage pattern.
Frequency: 9.350 GHz. For use in Germany, Austria, and Switzerland.
Order number **F01U297383**

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**