

Commercial Series Gen 2 TriTech AM Motion Detectors with Anti-mask



- ▶ TriTech AM models include active infrared anti-mask.
- ▶ C²DT: Cloak and Camouflage Detection Technology maximizes catch performance against intruders attempting to cover their infrared signal.
- ▶ EOL Resistors and mounting height.
- ▶ MEMS inside. Tamper and Impact stability.
- ▶ Active white light suppression.

The Commercial Series TriTech motion detectors are designed to ensure reliable catch performance and false alarm immunity in commercial applications. Commercial Series motion detectors use a combination of passive infrared (PIR) and microwave Doppler radar detection technologies with advanced signal processing. 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 faster by up to 45%, 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. The sensitivity level for the Commercial Series motion detectors with anti-mask is approximately 20% higher than in the models without anti-mask, making them more suitable for higher security applications, such as banks, jewelry stores, pharmacies, and other applications.

Active infrared anti-mask technology

The detector utilizes two different techniques for detecting attempts to obscure the field of view of the detector; through-the-lens and bounce back.

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 biaxial 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.

Cloak and Camouflage Detection Technology

Cloak and Camouflage Detection Technology (C²DT) maximizes catch performance against intruders attempting to cover their infrared signal.

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
- C²DT HI and LO
- Anti-mask On and Off

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.

RFI and Impact Immunity

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

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.

Remote Walk Test LED

Users can configure this at the device, enter a command through a keypad, a control center, or programming software to remotely enable or disable the walk test LED.

Active white light suppression

An internal light sensor measures the intensity of the light directed at the face of the detector. Sensor data fusion technology uses this information to eliminate false alarms from bright light sources.

Intelligent tamper detection

With the incorporation of Bosch’s Sensortec Microelectromechanical Sensor (MEMS) 3-axis accelerometer sensing technology, a higher level of tampering detection is available when detector

removal is attempted. Removal from mounting surfaces occurs Detection occurs when changes in the X, Y, Z positioning are altered. Other functions of the accelerometer include identifying when the detector is installed in an upside-down orientation. An LED sequence occurs signaling that the detector is mounted upside down.

Regulatory information

Region	Agency	Certification
USA and CA	UL and ULC	UL639, C-UL S306-03 LISTING Intrusion Detection Unit, Type: S (CDL2-A15G)
	FCC	Part 15 Subpart B & C, Class B, FCCID: T3X-CDL2 (CDL2-A15G)
	ISED	RSS210 1249A-CDL2 (CDL2-A15G)
EU	CE	CE - 2014/53/EU (RED), 2011/65/EU and 2015/863 (RoHS) (CDL2-A15G, CDL2-A15H)
	EN	EN 50131-2-4 Grade 2 (CDL2-A15G, CDL2-A15H) EN 50130-5, Environmental Class II EN60529, EN62262: IP41 / IK04
AFNOR	AFNOR	CDL2-A15H : EN50131-2-4 Grade 3, NF324-H58 + RTC 50131-2-4 Certificate # 2830200012 NF (AFNOR) www.marquenf.com , A2P (CNPP): www.cnpp.com Autosurveillance à l’ouverture Immunité champ magnétique. Test sans masque de vision vertical et sans immunité aux animaux.
Germany	VdS	EN-ST-000292
INCERT	INCERT	CDL2-A15G
UKCA	UKCA	CDL2-A15H

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. Mount the motion detector level, both horizontally and vertically.

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

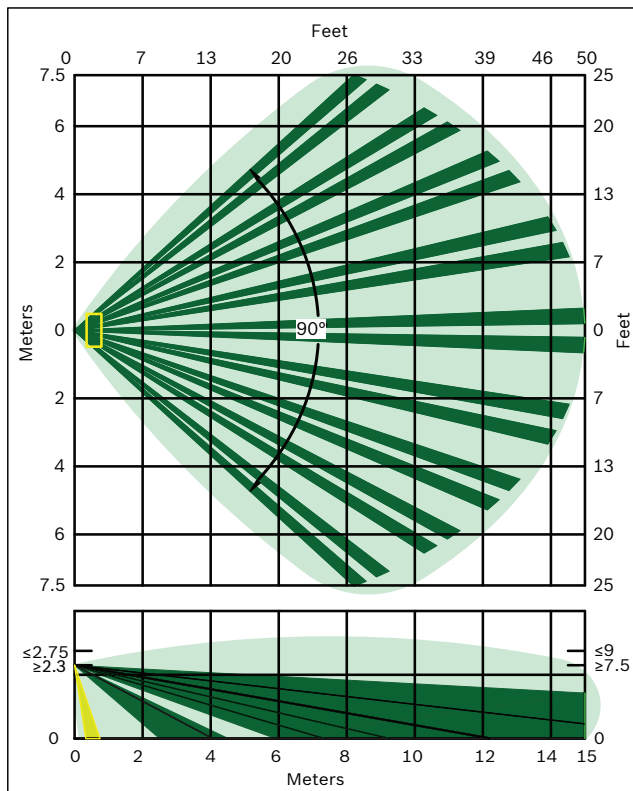


Fig. 1: For other models

Technical specifications

Mechanical

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

Relative humidity	< 93% non-condensing
Operating temperature	-20° C - +55° C (+4° F - +131° F) EN 50130-5 Environmental Class II: -20° C - +55° C (+4° F - +131° F) UL/C-UL: 0° C - +49° C (+32° F - +120° F)

Electrical

Current	Standby = 15 mA (UL: Maximum current = 35 mA)
Input voltage	9 VDC - 15 VDC
Radio Frequency Interference (RFI) Immunity	No alarm or setup on critical frequencies in the range from 150 kHz to 6 GHz at field strengths less than 10 V/m
Alarm relay, trouble relay	Solid state, supervised, normally closed (NC) contacts rated for <35 mA, 25 V, 2.5 W
Tamper	Supervised, normally closed (NC) contacts rated for <35 mA, 25 V, 2.5 W
End-of-line resistors	Alarm: 1.0 k, 2.2 k Tamper: 1.0 k, 2.2 k, 33 k Trouble: 2.2 k, 12 k

Ordering information

CDL2-A15G Motion detector, anti-mask, 50ft (15m)
Provides PIR and microwave Doppler radar detection, 15 m x 15 m (50 ft x 50 ft) coverage pattern, and anti-mask detection. Frequency: 10.525 GHz
Order number **CDL2-A15G | F.01U.383.080**

CDL2-A15H Motion detector anti-mask 15m, 10.588
Provides PIR and microwave Doppler radar detection, 15 m x 15 m (50 ft x 50 ft) coverage pattern, and anti-mask detection. Frequency: 10.588 GHz. For France and UK only.
Order number **CDL2-A15H | F.01U.383.081**

Accessories

B328 Mounting bracket, gimbal
Mounts on a single-gang box and allows rotation of a detector. Wires are hidden inside.
Order number **B328 | 4.998.800.277**

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 | 4.998.800.014**

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 | 4.998.800.282**

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