

Professional Series TriTech Curtain Motion Detectors

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Invented for life



- ▶ 30 m (100 ft) x 2.6 m (8.5 ft) standard coverage
- ▶ 2.1 m to 3 m (7 ft to 10 ft) mounting height, no adjustments required, optional lockdown masking
- ▶ Sensor data fusion technology
- ▶ Range adaptive radar and active white light suppression
- ▶ Dynamic temperature compensation

The Professional Series TriTech Curtain Detectors are exceptionally suited for commercial indoor applications. Sensor data fusion technology ensures that the detector sends alarm conditions based on precise information. The powerful combination of unique features in the Professional Series delivers superior catch performance and virtually eliminates false alarms.

The self-locking two-piece enclosure, built-in bubble level, flexible mounting height, and three optional mounting brackets simplify installation and reduce service time.

Functions

Sensor Data Fusion Technology

Sensor data fusion technology is a unique feature that uses a sophisticated software algorithm to gather signals from five sensors: two pyroelectric sensors, a range adaptive radar sensor, a room temperature sensor, and a white light level sensor. The microcontroller analyzes and compares the sensor data to make the most intelligent alarm decisions in the security industry.

Range Adaptive Radar

The microwave transceiver automatically adjusts its detection thresholds based on input from the PIR sensors. Integrating the target distance information from the PIR significantly reduces false alarms from the microwave Doppler radar.

Active White Light Suppression

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

Dynamic Temperature Compensation

The detector automatically adjusts PIR sensitivity to identify human intruders at critical temperatures. Dynamic temperature compensation detects human body heat accurately, avoids false alarms, and delivers consistent catch performance at all operating temperatures.

Cover and Wall Tamper Switch

When an intruder removes the cover or attempts to separate the detector from the wall, a normally-closed contact opens to alert the control panel.

Self-adjusting LEDs

The LED brightness adjusts automatically to the surrounding light level. A blue light-emitting diode (LED) indicates TriTech+ alarms and activates during a walk test. A yellow LED indicates microwave detection, and a red LED indicates PIR detection.

Remote Walk Test LED

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

Alarm Memory

Alarm memory flashes the alarm LED to indicate stored alarms for use in multiple unit applications. A switched voltage from the control panel controls the alarm memory.

Solid State Relays

Solid state relays send silent alarm output signals to provide a higher level of security and reliability. An external magnet does not activate the relay. The solid state relay uses less current than a mechanical relay, providing longer standby capacity during a power loss.

Draft, Insect, and Small Animal Immunity

The sealed optic chamber provides immunity to drafts and insects, reducing false alarms. Small animal immunity reduces false alarms caused by animals less than 4.5 kg (10 lb), such as rodents.

Remote Self Test

A remote self test initiates when the walk test input switches to its true state. The alarm relay and alarm LED activate for four seconds following a successful test. The trouble relay activates, and the alarm LED flashes following a failed test.

Input Power Supervision

When the power is lower than 8 V, a low input power trouble condition activates the trouble relay and causes the LED to flash. The trouble condition clears automatically when power reaches or exceeds 8 V.

Trouble Memory

When the walk test input switches to its true state for less than two seconds, the LED flashes to indicate the most recent trouble condition. If there is no trouble in memory, the LED does not flash. After twelve hours, or after the detector receives a second walk test pulse for two seconds or less, the LED stops flashing and the trouble memory clears.

Cloak and Camouflage Detection Technology

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

DIP Switch Programming

The following functions are all programmed using DIP switch settings:

- Local Walk Test LED
- Remote Walk Test Input Polarity
- Alarm Memory Polarity
- MANTIS Anti-mask On and Off

Certifications and approvals

Europe	WEEE	Waste Electrical and Electronic Equipment Directive
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The detectors are designed to also comply with requirements of:

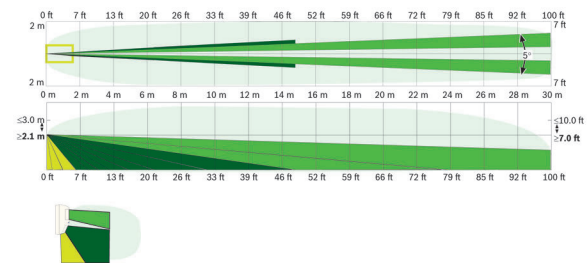
USA	FCC	Complies with Part 15
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Region Regulatory compliance/quality marks

Australia	RCM	[ISC-PDL1-WC30G]
USA	UL	[ISC-PDL1-WC30G]
Brazil	ANATEL	[ISC-PDL1-WC30G]

Installation/configuration notes

Coverage Patterns



Standard Curtain Coverage 30 m x 2.6 m (100 ft x 8.6 ft)

Mounting

The recommended mounting height is 2 m to 3 m (7 ft to 10 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

Wiring Considerations

Recommended wire size is 0.2 mm² to 1 mm² (26 AWG to 16 AWG).

Technical specifications

Electrical

Power Requirements

Voltage (Operating):	9 VDC to 15 VDC
Current (Maximum):	< 26 mA with alarm, trouble, and LEDs active.
Current (Standby):	18 mA at 12 VDC

Outputs for both Models

Tamper:	Normally-closed (NC) contacts (with cover on) rated at 25 VDC, 125 mA maximum. Connect tamper circuit to 24-hour protection circuit.
Trouble:	Solid state relay normally-closed (NC) contacts.
Alarm:	Solid state relay, normally-closed (NC) contacts, power supervised. 3 W, 125 mA, 25 DC, resistance < 10 Ω.

Mechanical

Enclosure Design

Color:	White
Dimensions:	127 mm x 69 mm x 58 mm (5 in. x 2.75 in. x 2.25 in.)
Material:	High-impact ABS plastic

Indicators

Alarm Indicator:	<ul style="list-style-type: none"> • Blue LED for TriTech+ alarms • Yellow LED for microwave detection • Red LED for PIR detection
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Zones

Zones:	28
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Environmental

Relative Humidity:	0 to 95%, non-condensing
Temperature (Operating and Storage):	-30°C to +55°C (-22°F to +130°F) <i>For UL Certified installations, 0°C to +49°C (+32°F to +120°F)</i>
Protection Rating (EN 60529, EN 50102):	IP41, IK04

Ordering information

ISC-PDL1-WC30G Motion detector, 100ft (30m), curtain
Provides PIR and microwave, 30 m x 3 m (100 ft x 10 ft) coverage.
Order number **ISC-PDL1-WC30G**

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**

ISC-PDL1-WC30H Motion detector 30m curtain, 10.588GHz

Provides PIR and microwave, 30 m x 3 m (100 ft x 10 ft) coverage. For use in France and the United Kingdom.

Order number **ISC-PDL1-WC30H**

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**

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**

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