

Invented for life



# Intrusion Detectors North America

Product overview

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**We've got you covered.** Our intrusion alarm systems are the best at catching intruders with freedom from annoying false alarms. It's like nothing really happens.

Keeping the wrong people out is the goal of every security system. But when your facility is at risk, you want to know that your intrusion system will perform. Bosch delivers the most flexible and reliable intrusion products. With detectors that make the correct decision every time to highly capable systems that can be customized to meet different requirements, Bosch helps to protect properties, assets and most importantly, people. We maximize peace of mind. So whatever happens, nothing really happens.



# Motion detectors

Whether you're securing a small business, large commercial property or high-security facility, you need reliable motion detectors that offer instant responses to intruders. Bosch has a long history of patented, award winning performance in the field of intrusion alarm solutions. Our products are extremely reliable providing **best-in-class catch performance**, while virtually **eliminating false alarms**. In addition our motion detectors are **easy to install** and **built to last** reducing installation and maintenance costs.

The more critical the application, the more sensitivity and coverage you need from your motion detector. For maximum flexibility, Bosch offers a choice of PIR and TriTech motion detectors that suit different application requirements.

PIR detectors sense movements in an area by using passive infrared technology (PIR), which sees infrared energy emitted by body heat. **TriTech** detectors use a combination of PIR, microwave Doppler radar technologies and advanced electronic signal processing. Only when both these sensor technologies are activated simultaneously and signals meet the requirements of the processing, an alarm will be triggered. The advanced signal processing algorithm, intelligently analyzes motion for an almost instant response to intruders while knowing when to ignore false alarm triggers under a variety of environmental conditions.



Bosch motion detector

Environment		PIR	TriTech
<b>Standard</b>	Small animals (e.g. rodents)	■	■
	Pets	■	■
<b>Difficult</b>	Strong drafts (cold, warm)	-	■
	Moving objects (e.g. hanging signs, ceiling fan, curtains)	-	■
	High risk (e.g. jewelry, bank)	-	■
	Bright white light (e.g. car headlights, direct sunlight)	-	■
	Room temperatures exceeding 86° F (30° C)	-	■

■ Applicable – Not applicable

Our offering:			
<b>Blue Line Series</b> Residential and Commercial Applications	<b>Commercial Series</b> Commercial applications including high risk scenarios	<b>Professional Series</b> Large commercial applications including high risk scenarios	<b>Ceiling mount</b> Applications where wall mount is not possible

## Excellent catch performance



### Wall-to-wall coverage

All Bosch motion detectors use high quality optics for high density, gap-free wall-to-wall coverage.



### Instant response from the first step

First Step Processing technology delivers an instant response to the first step of a person without producing false alarms from other sources.



### Detect a person at virtually any temperature

Dynamic temperature compensation automatically adjusts the detector's sensitivity so that it can identify a person at virtually any temperature. If the sun has been shining through a window all day raising the temperature of the room to 99° F (37° C) and someone enters the room, the sensor will compensate to detect this change and an alarm is triggered.



### Detect intruders who are trying to cover their body heat\*

Cloak and Camouflage detection technology (C<sup>2</sup>DT), further maximizes catch performance against intruders who attempt to cover their body heat or infrared signal with a blanket or an umbrella.

## Highest level of false alarm immunity



### Sealed optical chamber

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 and creating false alarms.



### Adjusts to background disturbances\*

Since many elements contribute to false alarms, Bosch invented Microwave Noise Adaptive Processing to differentiate between humans and background disturbances such as vibrating machinery, air conditioning and heating systems, as well as ceiling fans, further reducing false alarms without sacrificing the ability to detect an intruder.



### White light immunity

A dedicated white light sensor detects white light sources such as direct sunlight, car headlights or flashlights, without impacting the PIR detection reliability.



### Optimizes installation for pet or non-pet applications

When installing the detector, you 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 100 lb (45 kg) or numerous rodents.

## Easy to install



### Designed with unique features that speed up installation

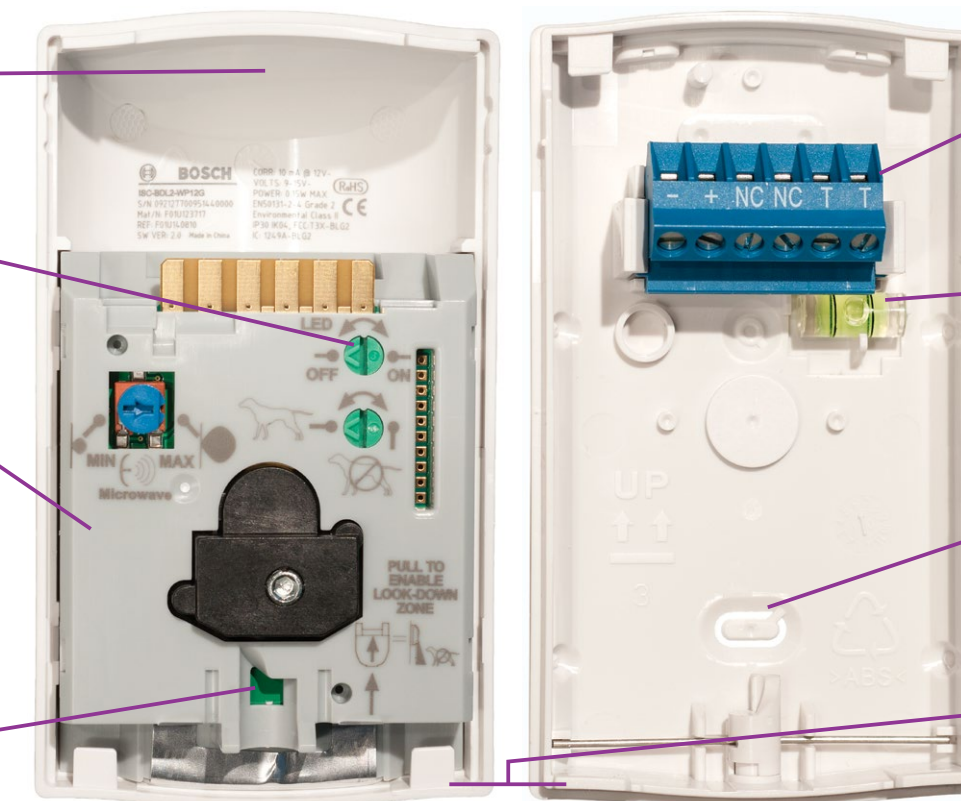
All Bosch motion detectors are designed with unique features that speed up installation by as much as 45% compared to models from other manufacturers. These features also reduce installer errors that can lead to false alarms or missed detection, thus reducing service calls.

Enough space for cabling and resistors

Look-down lens selection switch for customized coverage

Optics and electronics sealed behind a protective cover prevents damage during installation and false alarms due to drafts or insects

Self-locking cover with cam lock means no more lost screws



Removable, lift-gate terminal strip for easy installation and prevents incorrect wiring

Biaxial bubble level ensures accurate placement and optimal detection performance

Flexible mounting height eliminates the need for on-site adjustments

Unique 2-piece design: no loose parts and no need to remove PCB to mount the detector




\*Only available in TriTech detectors

## Blue Line Gen2 Series | Residential and small commercial

Material description	Standard PIR	Pet Friendly® PIR	Quad PIR	Standard TriTech®	Pet Friendly® TriTech®	Pet Friendly® TriTech®
<b>Commercial type number (CTN)</b>	ISC-BPR2-W12	ISC-BPR2-WP12	ISC-BPQ2-W12	ISC-BDL2-W12G	ISC-BDL2-WP12G	ISC-BDL2-WP6G
						
<b>Overview</b>	<b>Application risk level</b>	Low to moderate risk	Low to moderate risk	Moderate risk	Low to moderate risk	Low to moderate risk
	<b>Environment*</b>	Standard	Standard	Difficult	Difficult	Difficult
<b>Specifications</b>	<b>Coverage/range</b>	40 x 40 ft (12 x 12 m)	40 x 40 ft (12 x 12 m)	40 x 40 ft (12 x 12 m)	40 x 40 ft (12 x 12 m)	20 x 20 ft (6 x 6 m)
	<b>Mounting height</b>	7.5 to 9 ft (2.3 to 2.8 m)	7.5 to 9 ft (2.3 to 2.8 m)	7.5 to 9 ft (2.3 to 2.8 m)	7.5 to 9 ft (2.3 to 2.8 m)	7.5 to 9 ft (2.3 to 2.8 m)
	<b>Operating temperature**</b>	-20° to 130° F (-30° to 55° C)	-20° to 130° F (-30° to 55° C)	-20° to 130° F (-30° to 55° C)	-20° to 130° F (-30° to 55° C)	-20° to 130° F (-30° to 55° C)
	<b>Operating voltage</b>	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC
	<b>Current draw (typical)</b>	10 mA	10 mA	10 mA	10 mA	10 mA
<b>Features</b>	<b>First step processing</b>	■	■	■	■	■
	<b>Microwave noise adaptive processing</b>	–	–	–	■	■
	<b>Dynamic temperature compensation</b>	■	■	■	■	■
	<b>Wall-to-wall coverage</b>	■	■	■	■	■
	<b>Look-down zone</b>	■	■	■	■	■
	<b>Pet/small animal immunity</b>	10 lb (4.5 kg)	45 lb (20 kg)	10 lb (4.5 kg)	10 lb (4.5 kg)	100 lb (45 kg)
	<b>Alarm output</b>	NC	NC	NC	NC	NC
	<b>Alarm memory</b>	–	–	–	–	–
	<b>Anti-mask</b>	–	–	–	–	–
	<b>Tamper</b>	Cover	Cover	Cover	Cover	Cover
	<b>Sealed optical chamber</b>	■	■	■	■	■
<b>Ease of Installation***</b>	<b>No-adjust installation</b>	■	■	■	■	■
	<b>Enable/disable LED</b>	■	■	■	■	■
	<b>Enable/disable pet immunity</b>	–	■	–	–	■
	<b>Enable/disable look-down</b>	■	■	■	–	–
	<b>Microwave Doppler range adjustment</b>	–	–	–	■	■
<b>Certifications</b>		AFNOR, CCC, CE, EN50131-2-2 Grade 2, INCERT, UL	AFNOR, CCC, CE, EN50131-2-2 Grade 2, INCERT, UL	AFNOR, CCC, CE, EN50131-2-2 Grade 2, INCERT, UL	CCC, FCC, IC, UL	CCC, FCC, IC, UL

■ Available – Not available




## Commercial Series | Small to medium commercial

Material description	TriTech	TriTech Anti-mask	TriTech Anti-mask
<b>Commercial type number (CTN)</b>	CDL2-15G	CDL2-A15G	CDL2-A12G
			
<b>Overview</b>	<b>Application risk level</b>	Moderate risk	High risk
	<b>Environment*</b>	Difficult	Difficult
<b>Specifications</b>	<b>Coverage/range</b>	15 x 15 m	15 x 15 m
	<b>Mounting height</b>	2.2 to 2.75 m	2.2 to 2.75 m
	<b>Operating temperature**</b>	-20° to 55° C	-20° to 55° C
	<b>Operating voltage</b>	9 to 15 VDC	9 to 15 VDC
	<b>Current draw (typical)</b>	15 mA	15 mA
<b>Features</b>	<b>First step processing</b>	■	■
	<b>Microwave noise adaptive processing</b>	■	■
	<b>Range adaptive radar</b>	–	–
	<b>Active white light suppression</b>	■	■
	<b>Dynamic temperature compensation</b>	■	■
	<b>Look-down zone</b>	■	■
	<b>Pet/small animal immunity</b>	10 lb (4.5 kg)	10 lb (4.5 kg)
	<b>Alarm output</b>	NC	NC
	<b>Alarm memory</b>	■	■
	<b>Anti-mask</b>	–	■
	<b>Tamper</b>	Cover	Cover + wall
	<b>Sealed optical chamber</b>	■	■
<b>Ease of Installation***</b>	<b>No-adjust installation</b>	■	■
	<b>Enable/disable look-down</b>	■	■
	<b>Enable/disable LED</b>	■	■
	<b>Microwave Doppler range adjustment</b>	■	■
	<b>Mems</b>	■	■
	<b>Shock and Impact Resistance</b>	■	■
	<b>Built in EOL Resistors</b>	■	■
	<b>Mounting Error Checking</b>	■	■
	<b>Intelligent Tamper Detection</b>	–	■
<b>Certifications</b>		AFNOR, CCC, CE, EN50131-2-4 Grade 2, UL	AFNOR, CCC, CE, EN50131-2-4 Grade 3




■ Available – Not available



# Professional Series | Large commercial and high security


Material description	Standard PIR	Anti-mask PIR	Standard TriTech
<b>Commercial type number (CTN)</b>	ISC-PPR1-W16	ISC-PPR1-WA16G	ISC-PDL1-W18G
			
<b>Overview</b>			
<b>Application risk level</b>	Moderate risk	High risk	Moderate risk
<b>Environment*</b>	Standard	Standard	Difficult
<b>Specifications</b>			
<b>Coverage/range</b>	50 x 70 ft (16 x 21 m) 25 x 33 ft (8 x 10 m)	50 x 70 ft (16 x 21 m) 25 x 33 ft (8 x 10 m)	60 x 80 ft (18 x 25 m) 25 x 33 ft (8 x 10 m)
<b>Mounting height</b>	7 to 10 ft (2.1 to 3 m)	7 to 10 ft (2.1 to 3 m)	7 to 10 ft (2.1 to 3 m)
<b>Operating temperature**</b>	-20° to 130° F (-29° to 55° C)	-22° to 130° F (-30° to 55° C)	-20° to 130° F (-29° to 55° C)
<b>Operating voltage</b>	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC
<b>Current draw (typical)</b>	10 mA	18 mA	13 mA
<b>Features</b>			
<b>Sensor Data Fusion</b>	■	■	■
<b>Microwave noise adaptive processing</b>	–	–	■
<b>Range adaptive radar</b>	–	–	■
<b>Active white light supression</b>	■	■	■
<b>Dynamic temperature compensation</b>	■	■	■
<b>Look-down zone</b>	■	■	■
<b>Pet/small animal immunity</b>	10 lb (4.5 kg)	10 lb (4.5 kg)	10 lb (4.5 kg)
<b>Alarm output</b>	NC	NC	NC
<b>Alarm memory</b>	■	■	■
<b>Anti-mask</b>	–	■	–
<b>Tamper</b>	Cover + wall	Cover + wall	Cover + wall
<b>Sealed optical chamber</b>	■	■	■
<b>Ease of Installation***</b>			
<b>No-adjust installation</b>	■	■	■
<b>Enable/disable look-down</b>	■	■	■
<b>Long/short select range</b>	■	■	■
<b>Microwave Doppler range adjustment</b>	–	–	■
<b>Remote walk test</b>	■	■	■
<b>Remote self test</b>	■	■	■
<b>Certifications</b>	AFNOR, CCC, CE, EN50131-2-2 Grade 2, FCC, IC, INCERT, UL	AFNOR, CCC, CE, EN50131-2-2 Grade 3, FCC, IC, INCERT, UL	AFNOR, CCC, CE, EN50131-2-4 Grade 2, FCC, IC, INCERT, UL

■ Available – Not available

Material description	Anti-mask TriTech®	Curtain TriTech®	Anti-mask Curtain TriTech®
<b>Commercial type number (CTN)</b>	ISC-PDL1-WA18G	ISC-PDL1-WC30G	ISC-PDL1-WAC30G
			
<b>Overview</b>			
<b>Application risk level</b>	High risk	Moderate risk	High risk
<b>Environment*</b>	Difficult	Difficult	Difficult
<b>Specifications</b>			
<b>Coverage/range</b>	60 x 80 ft (18 x 25 m) 25 x 33 ft (8 x 10 m)	100 x 8.5 ft (30 x 2.6 m) 25 x 3.3 ft (8 x 1 m)	100 x 8.5 ft (30 x 2.6 m) 25 x 3.3 ft (8 x 1 m)
<b>Mounting height</b>	7 to 10 ft (2.1 to 3 m)	7 to 10 ft (2.1 to 3 m)	7 to 10 ft (2.1 to 3 m)
<b>Operating temperature**</b>	-22° to 130° F (-30° to 55° C)	-22° to 130° F (-30° to 55° C)	-22° to 130° F (-30° to 55° C)
<b>Operating voltage</b>	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC
<b>Current draw (typical)</b>	18 mA	18 mA	18 mA
<b>Features</b>			
<b>Sensor Data Fusion</b>	■	■	■
<b>Microwave noise adaptive processing</b>	■	■	■
<b>Range adaptive radar</b>	■	■	■
<b>Active white light supression</b>	■	■	■
<b>Dynamic temperature compensation</b>	■	■	■
<b>Look-down zone</b>	■	■	■
<b>Pet/small animal immunity</b>	10 lb (4.5 kg)	10 lb (4.5 kg)	10 lb (4.5 kg)
<b>Alarm output</b>	NC	NC	NC
<b>Alarm memory</b>	■	■	■
<b>Anti-mask</b>	■	–	■
<b>Tamper</b>	Cover + wall	Cover + wall	Cover + wall
<b>Sealed optical chamber</b>	■	■	■
<b>Ease of Installation***</b>			
<b>No-adjust installation</b>	■	■	■
<b>Enable/disable look-down</b>	■	■	■
<b>Long/short select range</b>	■	–	–
<b>Microwave Doppler range adjustment</b>	■	■	■
<b>Remote walk test</b>	■	■	■
<b>Remote self test</b>	■	■	■
<b>Certifications</b>	CCC, FCC, IC, UL	CCC, FCC, IC, UL	–


■ Available – Not available

# Ceiling Mount

Material description	Low-profile PIR	High-performance PIR	High-performance TriTech®
<b>Commercial type number (CTN)</b>	DS936 / DS936B	DS939	DS9370 / DS9371
			
<b>Overview</b>	<b>Application risk level</b>	Low to moderate risk	Moderate risk
	<b>Environment*</b>	Standard	Difficult
<b>Specifications</b>	<b>Optics</b>	Fresnel	Triple 35-zone Fresnel
	<b>Coverage/range</b>	24 ft (7 m) diameter	46 ft
	<b>Mounting height</b>	7 to 12 ft (2.1 to 3.6 m)	8 to 20 ft (2.4 to 6 m)
	<b>Operating temperature**</b>	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)
	<b>Operating voltage</b>	10 to 15 VDC	9 to 15 VDC
	<b>Current draw (typical)</b>	20 mA	12 mA
<b>Features</b>	<b>First Step Processing</b>	–	■
	<b>Motion Analyzer II signal processing</b>	–	–
	<b>PIR supervision</b>	–	–
	<b>Microwave supervision</b>	–	■
	<b>Microwave noise adaptive processing</b>	–	■
	<b>Dynamic temperature compensation</b>	–	■
	<b>Pet/small immunity</b>	–	–
	<b>Pattern masking</b>	■	■
	<b>Alarm output</b>	NC	NC/NO
	<b>Alarm memory</b>	–	■
	<b>Tamper</b>	Cover	Cover + wall
	<b>Sealed optical chamber (insect/dust)</b>	■	■
<b>Ease of Installation***</b>	<b>Interchangeable optics</b>	–	–
	<b>Switchable coverage patterns</b>	–	■
	<b>Enable/disable LED</b>	■	■
	<b>PIR sensitivity adjustment</b>	■	■
	<b>Microwave Doppler range adjustment</b>	–	■
	<b>Flexible mounting height</b>	■	■
	<b>Remote walk test</b>	–	■
	<b>Remote self test</b>	–	–
<b>Certifications</b>	CCC, CE, UL	AFNOR, CCC, CE, EN50131-2-2 Grade 2, INCERT, UL	CCC, FCC, IC, UL


■ Available – Not available

# Outdoor Motion

Material description	Outdoor TriTech Detector
<b>Commercial type number (CTN)</b>	OD850-F1
	
<b>Overview</b>	<b>Application risk level</b>
	Moderate risk
	<b>Environment*</b>
	Difficult
<b>Specifications</b>	<b>Optics</b>
	Fresnel
	<b>Coverage/range</b>
	50 x 50 ft (15 x 15 m)
	<b>Mounting height</b>
	7 to 9 ft (2.1 to 2.7 m)
	<b>Operating temperature**</b>
	-31° to 130° F (-35° to 60° C) (IP54 Rated)
	<b>Operating voltage</b>
	10 to 15 VDC
	<b>Current draw (typical)</b>
	22 mA
<b>Features</b>	<b>Motion Analyzer II signal processing</b>
	■
	<b>PIR supervision</b>
	■
	<b>Microwave supervision</b>
	■
	<b>Microwave noise adaptive processing</b>
	■
	<b>Dynamic temperature compensation</b>
	■
	<b>Pet/small immunity</b>
	–
	<b>Pattern masking</b>
	–
	<b>Anti-masking with spray detect</b>
	–
	<b>Alarm output</b>
	NC and Form C
	<b>Alarm memory</b>
	–
	<b>Tamper</b>
	Cover+ wall
	<b>Sealed optical chamber (insect/dust)</b>
	■
<b>Ease of Installation***</b>	<b>Interchangeable optics</b>
	–
	<b>Switchable coverage patterns</b>
	–
	<b>Enable/disable LED</b>
	■
	<b>PIR sensitivity adjustment</b>
	■
	<b>Microwave Doppler range adjustment</b>
	■
	<b>Flexible mounting height</b>
	■
	<b>Remote walk test</b>
	–
	<b>Remote self test</b>
	–
<b>Certifications</b>	CE, GOST, UL, FCC, CTICK, ULC, CCC, ANATEL, iDA

■ Available – Not available

# Long Range | Specialty





Long Range PIR	Long Range PIR
DS794Z	DS778
	
<b>Overview</b>	<b>Application risk level</b>
	Moderate risk
	<b>Environment*</b>
	Standard
<b>Specifications</b>	<b>Optics</b>
	Field-replaceable
	200 x 10 ft (61 x 3 m)
	<b>Coverage/range</b>
	200 x 15 ft (60 x 4.5 m)
	<b>Mounting height</b>
	15 ft (5 m) maximum
	6.5 to 8.5 ft (2 to 2.6 m) recommended
	<b>Operating temperature**</b>
	-20° to 120° F (-29° to 49° C)
	-40° to 120° F (-40° to 49° C)
	<b>Operating voltage</b>
	6 VDC to 15 VDC
	6 VDC to 15 VDC
	<b>Current draw (typical)</b>
	18 mA at 12 VDC
	18 mA at 12 VDC
<b>Features</b>	<b>Motion Analyzer II signal processing</b>
	■
	<b>PIR supervision</b>
	■
	<b>Microwave supervision</b>
	–
	<b>Microwave noise adaptive processing</b>
	–
	<b>Dynamic temperature compensation</b>
	–
	<b>Pet/small immunity</b>
	–
	<b>Pattern masking</b>
	■
	<b>Anti-masking with spray detect</b>
	–
	<b>Alarm output</b>
	NC/NO
	NC/NO
	<b>Alarm memory</b>
	–
	<b>Tamper</b>
	Cover
	Cover
	<b>Sealed optical chamber (insect/dust)</b>
	–
	<b>Interchangeable optics</b>
	■
	<b>Switchable coverage patterns</b>
	■
	<b>Enable/disable LED</b>
	■
	<b>PIR sensitivity adjustment</b>
	■
	<b>Microwave Doppler range adjustment</b>
	–
	<b>Flexible mounting height</b>
	■ up to 15 ft (5 m)
	■ 6.5 to 8.5 ft (2 to 2.6 m)
	<b>Remote walk test</b>
	■
	<b>Remote self test</b>
	■
<b>Certifications</b>	UL, CE, CCC
	UL, GOST

## Seismic/Shock | Specialty

Material description	Standard Seismic	High-performance Seismic	Shock
<b>Commercial type number (CTN)</b>	ISN-SM-50	ISN-SM-80	ISC-SK10
			
<b>Overview</b>			
<b>Type</b>	Thermal, Mechanical, Explosive, Water Attack Detection	Thermal, Mechanical, Explosive, Water Attack Detection	Mechanical Attack Detection
<b>Application type</b>	Small to large commercial	Small to large commercial	Residential to large commercial
<b>Application risk level</b>	High risk	High risk	High risk
<b>Environment</b>	Vault walls and doors, safes, ATMs, strong rooms, vending machines	Vault walls and doors, safes, ATMs, strong rooms, vending machines	Vault walls and doors, safes, ATMs, strong rooms, vending machines
<b>Specifications</b>			
<b>Coverage/range</b>	538 ft² (50 m²)	861 ft² (80 m²)	5 to 11.5 ft (1.5 to 3.5 m) radius
<b>Operating temperature**</b>	-40° to 158° F (-40° to 70° C)	-40° to 158° F (-40° to 70° C)	-14° to 131° F (-10° to 55° C)
<b>Operating voltage</b>	8 to 16 VDC	8 to 16 VDC	9 to 15 VDC
<b>Current draw (typical)</b>	3 mA	3 mA	8.5 mA
<b>Environmental rating</b>	IP43	IP43	IP43
<b>Features</b>			
<b>Anti-drilling shield</b>	■	■	–
<b>Temperature supervision</b>	■	■	–
<b>Voltage monitoring</b>	■	■	–
<b>Automatic self test</b>	■	■	–
<b>Local event memory</b>	–	■	–
<b>Alarm output</b>	NC solid state relays	NC solid state relays	NC solid state relays
<b>LED</b>	–	–	Green, red
<b>Tamper</b>	Cover + wall	Cover + wall	Cover
<b>Ease of installation</b>			
<b>Intelligent installation mode</b>	–	–	■
<b>Mounting and function test</b>	■	■	■
<b>Sensitivity adjustment</b>	■	■	■
<b>Mounting location</b>	Steel, concrete	Steel, concrete	Any
<b>Installation accessories</b>	Anti-drill foil (ISN-GMX-D7), Floor socket (ISN-GMX-B0), Mounting plate (ISN-GMX-P0), Swivel plate (ISN-GMX-P3S), Test transmitter (ISN-GMX-S1), Wall mounting kit (ISN-GMX-W0)	Anti-drill foil (ISN-GMX-D7), Floor socket (ISN-GMX-B0), Mounting plate (ISN-GMX-P0), Test transmitter (ISN-GMX-S1), Wall mounting kit (ISN-GMX-W0)	–
<b>Software options</b>	ISN-SMS-W7 SensTool PC Software	ISN-SMS-W7 SensTool PC Software	–
<b>Certifications</b>			
<b>Approvals/listings</b>	CCC, CE, NCP, VdS, UL	CCC, CE, NCP, VdS, UL	CCC, CE

■ Available – Not available





## Glass Break | Specialty

Material description	Standard	Standard	Standard	Combo Magnetic Contact
<b>Commercial type number (CTN)</b>	DS1101i	DS1102i	DS1103i	DS1109i
				
<b>Overview</b>				
<b>Application type</b>	Residential to large commercial	Residential to large commercial	Residential to large commercial	Residential to large commercial
<b>Application risk level</b>	Low to moderate risk	Low to moderate risk	Low to moderate risk	Low to moderate risk
<b>Environment</b>	Standard	Standard	Standard	Standard
<b>Specifications</b>				
<b>Coverage/range</b>	25 ft (7.6 m) diameter	25 ft (7.6 m) diameter	25 ft (7.6 m) diameter	10 ft (3 m) diameter
<b>Operating temperature**</b>	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)
<b>Operating voltage</b>	6 to 15 VDC	6 to 15 VDC	9 to 15 VDC	6 to 15 VDC
<b>Current draw (typical)</b>	23 mA	23 mA	21 mA	21 mA
<b>Features</b>				
<b>Sound Analysis Technology (SAT) processing</b>	NC/NO	NC/NO	NC	NC
<b>Alarm output</b>	■	■	■	■
<b>LED indicator</b>	–	–	–	–
<b>Tamper</b>	■	■	–	■
<b>Ease of installation</b>				
<b>Mounting location</b>	Wall, ceiling	Wall, ceiling	Wall, ceiling (flush)	Door, window frame
<b>Installation accessories</b>	Glass Break Tester (DS1110i)	Glass Break Tester (DS1110i)	Glass Break Tester (DS1110i)	Glass Break Tester (DS1110i)
<b>Certifications</b>				
	CCC, CE, UL	CCC, CE, UL	CCC, CE, UL	CCC, CE, UL

■ Available – Not available





## Request-to-Exit | Specialty

Material description	Standard PIR		High-performance PIR	
Commercial type number (CTN)	DS150i	DS151i	DS160	DS161
				
Specifications				
<b>Coverage/range</b>	8 x 10 ft (2.4 x 3 m)	8 x 10 ft (2.4 x 3 m)	8 x 10 ft (2.4 x 3 m)	8 x 10 ft (2.4 x 3 m)
<b>Mounting height</b>	7 to 10 ft (2.1 to 3 m)	7 to 10 ft (2.1 to 3 m)	7.5 to 15 ft (2.3 to 4.6 m)	7.5 to 15 ft (2.3 to 4.6 m)
<b>Operating temperature**</b>	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)
<b>Operating voltage</b>	12 VAC or VDC; 24 VAC or VDC	12 VAC or VDC; 24 VAC or VDC	12 VAC or VDC; 30 VAC or VDC	12 VAC or VDC; 30 VAC or VDC
<b>Current draw (typical)</b>	26 mA nominal	26 mA nominal	8 mA nominal	8 mA nominal
Features				
<b>Door monitor with sounder</b>	–	–	■	■
<b>Keycard reader input</b>	–	–	■	■
<b>Sequential logic input</b>	–	–	■	■
<b>Relay fail-safe/fail-secure</b>	■	■	■	■
<b>Relay settable select</b>	■	■	■	■
<b>Relay latch time adjustment</b>	0.25 to 60 seconds	0.25 to 60 seconds	0.5 to 64 seconds	0.5 to 64 seconds
<b>Pattern masking</b>	■	■	■	■
<b>Alarm output/memory</b>	–/■	–/■	–/■	–/■
<b>Tamper</b>	–	–	■	■
<b>Pointable optics</b>	Vertical adjustment	Vertical adjustment	Vertical adjustment	Vertical adjustment
<b>Switchable relay mode</b>	■	■	■	■
<b>Switchable timer reset mode</b>	■	■	■	■
<b>Adjustable sounder volume</b>	–	–	■	■
<b>PIR sensitivity adjustment</b>	■	■	■	■
<b>Enable/disable LED</b>	–	–	■	■
<b>Flexible mounting height</b>	■	■	■	■
Certifications	UL, CE	UL, CE	UL, CE	UL, CE

■ Available – Not available

## RADION+ | Wireless

Material description	Standard PIR	Curtain PIR	Standard TriTech®
Commercial type number (CTN)	RFPR-12	RFPR-C12	RFDL-11
			
Overview			
<b>Application risk level</b>	Low to moderate risk	Low to moderate risk	Low to moderate risk
<b>Environment*</b>	Standard	Standard	Difficult
Specifications			
<b>Frequency</b>	433.42 MHz	433.42 MHz	433.42 MHz
<b>Coverage/range</b>	40 x 40 ft (12 x 12 m)	40 x 5 ft (12 x 1.5 m)	35 x 35 ft (11 x 11 m)
<b>Mounting height</b>	7 to 9 ft (2.1 to 2.8 m)	7 to 8.5 ft (2.1 to 2.6 m)	6.5 to 8 ft (2 to 2.4 m)
<b>Operating temperature**</b>	14° to 120° F (-10° to 49° C)	14° to 120° F (-10° to 49° C)	14° to 120° F (-10° to 49° C)
<b>Operating voltage</b>	3 VDC	3 VDC	6 VDC
<b>Power source</b>	One CR123A Lithium battery	One CR123A Lithium battery	Four AA Alkaline batteries
<b>Battery life</b>	Up to 5 years	Up to 5 years	Up to 5 years
Features			
<b>Motion Analyzer II signal processing</b>	■	■	■
<b>Microwave noise adaptive processing</b>	–	–	■
<b>Dynamic temperature compensation</b>	■	■	■
<b>Wall-to-wall coverage</b>	■	■	■
<b>Look-down zone</b>	■	■	■
<b>Pet/small animal immunity</b>	30 lb (13 kg)	30 lb (13 kg)	100 lb (45 kg)
<b>Anti-mask</b>	–	–	–
<b>Tamper</b>	Cover + wall	Cover + wall	Cover + wall
<b>Sealed optical chamber</b>	■	■	■
Ease of installation***			
<b>No adjust installation</b>	■	■	–
<b>Enable/disable LED</b>	–	–	–
<b>Enable/disable pet immunity</b>	–	–	■
<b>Enable/disable look-down</b>	■	■	■
<b>Switchable detection patterns</b>	–	–	–
<b>Microwave Doppler range adjustment</b>	–	–	■
Certifications	ANATEL, AFNOR, CCC, CE, EN50131-2-2 Grade 2, FCC, IC, INCERT, RCM, UL	ANATEL, AFNOR, CCC, CE, EN50131-2-2 Grade 2, FCC, IC, INCERT, RCM, UL	ANATEL, CCC, FCC, IC, RCM, UL


■ Available – Not available

# RADION+ | Wireless

Material description		Surface Mount Contact	Recessed Mount Contact	Universal Transmitter
<b>Commercial type number (CTN)</b>		RFDW-SM	RFDW-RM	RFUN
				
<b>Specifications</b>	<b>Frequency</b>	433.42 MHz	433.42 MHz	433.42 MHz
	<b>Coverage/range</b>	–	–	–
	<b>Reed switch gap width</b>	< 0.8 in (19 mm)	< 0.8 in (19 mm)	< 0.8 in (19 mm)
	<b>Operating temperature*</b>	14° to 120° F (-10° to 49° C)	14° to 120° F (-10° to 49° C)	14° to 120° F (-10° to 49° C)
	<b>Operating voltage</b>	1.5 VDC	1.5 VDC	1.5 VDC
	<b>Power source</b>	One AAA Lithium battery	One AAA Lithium battery	One CR123A Lithium battery
	<b>Battery life</b>	Up to 5 years	Up to 5 years	Up to 5 years
<b>Features</b>	<b>Tamper</b>	■	■	■
	<b>LED indicator</b>	–	–	–
<b>Certifications</b>		ANATEL, CCC, CE, EN50131, FCC, IC, INCERT, RCM, UL	ANATEL, CCC, CE, EN50131, FCC, IC, INCERT, RCM, UL	ANATEL, CCC, CE, EN50131, FCC, IC, INCERT, RCM, UL





■ Available – Not available

# RADION+ | Wireless

Material description		Wireless CO Detector	Wireless Smoke Detector	Wireless Heat Detector
<b>Commercial type number (CTN)</b>		RFCCO	RFSM2	RFHT
				
<b>Specifications</b>	<b>Frequency</b>	433.42 MHz	433.42 MHz	433.42 MHz
	<b>Temperature range</b>	–	135° +/- 4° F (57° +/- 2° C)	135° +/- 4° F (57° +/- 2° C)
	<b>Mounting gap</b>	–	–	–
	<b>Operating temperature**</b>	40° to 131° F (4.4° to 55° C)	40° to 131° F (4.4° to 55° C)	40° to 131° F (4.4° to 55° C)
	<b>Operating voltage</b>	3 VDC	3 VDC	3 VDC
	<b>Power source</b>	Two 1.5 V AAA battery	Two 1.5 V AAA battery	Two 1.5 V AAA battery
	<b>Battery life</b>	Up to 6 years	Up to 10 years	Up to 10 years
<b>Features</b>	<b>Tamper</b>	■	■	■
	<b>LED indicator</b>	■	■	■
<b>Certifications</b>		UL, FCC, IC	UL, FCC, IC	UL, FCC, IC


■ Available – Not available

## RADION+ | Wireless

Material description	Glass Break	Bill Trap	Keyfob	Panic Button
<b>Commercial type number (CTN)</b>	RFGB	RFBT	RFKF-FBS, RFKF-TBS	RFPB
				
<b>Specifications</b>				
<b>Frequency</b>	433.42 MHz	433.42 MHz	433.42 MHz	433.42 MHz
<b>Coverage/range</b>	20 ft (6 m) diameter	-	-	-
<b>Mounting gap</b>	-	-	-	-
<b>Operating temperature**</b>	14° to 120° F (-10° to 49° C)	14° to 120° F (-10° to 49° C)	14° to 120° F (-10° to 49° C)	14° to 120° F (-10° to 49° C)
<b>Operating voltage</b>	3 VDC	1.5 VDC	3 VDC	3 VDC
<b>Power source</b>	One CR123A Lithium battery	One AAA Lithium battery	One CR2032 Lithium battery	One CR2032 Lithium battery
<b>Battery life</b>	Up to 5 years	Up to 5 years	Up to 5 years	Up to 5 years
<b>Features</b>				
<b>Tamper</b>	■	■	-	-
<b>LED indicator</b>	■	■	■	■
<b>Synchronized encryption</b>	-	-	■ (FBS, TBS models)	-
<b>Certifications</b>	ANATEL, CCC, CE, EN50131, FCC, IC, INCERT, RCM, UL	ANATEL, CCC, CE, EN50131, FCC, IC, INCERT, RCM, UL	ANATEL, CCC, CE, EN50131, FCC, IC, INCERT, RCM, UL	ANATEL, CE, CSFM, FCC, IC, RCM, UL

■ Available – Not available

## RADION+ | Wireless

Material description	Fixed Panic
<b>Commercial type number (CTN)</b>	RFPB-FP-A
	
<b>Specifications</b>	
<b>Frequency</b>	433.42 MHz
<b>Coverage/range</b>	-
<b>Mounting gap</b>	-
<b>Operating temperature**</b>	14° to 130° F (-10° to 55° C)
<b>Operating voltage</b>	3 VDC
<b>Power source</b>	One CR123A
<b>Battery life</b>	Up to 5 years
<b>Features</b>	
<b>Tamper</b>	■
<b>LED indicator</b>	-
<b>Synchronized encryption</b>	-

■ Available – Not available



# Inovonics

Material description	Universal Transmitter	Universal Transmitter W / EOL	Door / Window Contact	Universal Transmitter W / Tamper	Door / Window Contact Tamper / EOL	Water-Resistant Pendant	Necklace Pendant	Pendant
<b>Commercial type number (CTN)</b>	EN1210	EN1210EOL	EN1210W	EN1215EOL	EN1215WEOL	EN1223S, EN1223D	EN1233S, EN1233D	EN1235S, EN1235D
<b>Frequency</b>	900 - 928 MHz	901 - 928 MHz	902 - 928 MHz	903 - 928 MHz	904 - 928 MHz	905 - 928 MHz	906 - 928 MHz	908 - 928 MHz
<b>Coverage / range</b>	-	-	-	-	-	-	-	-
<b>Mounting gap</b>	-	-	0.6 in (15.9 mm)	-	0.6 in (15.9 mm)	-	-	-
<b>Operating temperature</b>	-4° to 140° F (-20° to 60° C )	-4° to 140° F (-20° to 60° C )	-4° to 140° F (-20° to 60° C )	32° to 140° F (0° to 60° C)	32° to 140° F (0° to 60° C)	32° to 140° F (0° to 60° C)	32° to 140° F (0° to 60° C)	32° to 140° F (0° to 60° C)
<b>Operating voltage</b>	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC
<b>Power source</b>	One CR123A	One CR123A	One CR123A	One CR123A	One CR123A	One CR2450	One CR2	One CR2
<b>Battery life</b>	Up to 5 years	Up to 5 years	Up to 5 years	Up to 5 years	Up to 5 years	Up to 2 years	Up to 5 years	Up to 5 years
<b>Tamper</b>	■	■	■	■	■	-	-	-
<b>Led indicator</b>	-	-	-	-	-	■	■	■
<b>Certifications</b>	FCC, ISED, RCM, UL	FCC, ISED, RCM, RoHS, UL	FCC, ISED, RCM, RoHS, UL	FCC, ISED, RCM, RoHS, UL	FCC, ISED, RCM, RoHS, UL	FCC, RoHS, UL	FCC, RoHS	FCC, RoHS

Material description	Fixed Position Hold Up Transmitter	Wireless Smoke Detector	Glassbreak Detector	Bill Trap Transmitter	Motion Detector, Standard PIR	Motion Detector, Pet Immune PIR	Motion Detector, Ceiling Mount PIR
<b>Commercial type number (CTN)</b>	EN1235SF, EN1235DF	EN1244	EN1248	EN1249	EN1263	EN1262	EN1266
<b>Frequency</b>	909 - 928 MHz	910 - 928 MHz	902 - 928 MHz	912 - 928 MHz	902 - 928 MHz	915 - 928 MHz	902 - 928 MHz
<b>Coverage / range</b>	-	32° to 120° F (-0° to 50° C)	26 ft (8m)	-	26 ft (8m)	40 x 40 ft (12 x 12 m)	46 ft diameter (14m)
<b>Mounting gap</b>	-	-	-	-	-	-	-
<b>Operating temperature</b>	32° to 140° F (0° to 60° C)	32° to 120° F (-0° to 50° C)	32° to 120° F (-0° to 50° C)	-4° to 140° F (-20° to 60° C )	32°F to 120°F (0°C to 49°C)	-4° to 140° F (-20° to 60° C)	32° to 120° F (0° to 49° C)
<b>Operating voltage</b>	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC
<b>Power source</b>	One CR2	One CR123A	Lithium AA	One CR123A	One CR123A	One CR123A	Two Lithium AA
<b>Battery life</b>	Up to 5 years	Up to 5 years	2 Years	Up to 5 years	Up to 2 years	Up to 2 years	2 Years
<b>Tamper</b>	■	■	■	■	■	■	■
<b>Led indicator</b>	■	■	■	■	■	■	■
<b>Certifications</b>	FCC, RoHS, UL	FCC, UL, CSFM	FCC	UL	FCC	FCC	FCC

■ Available – Not available

# Door Contacts

## Surface mount

Commercial type number (CTN)	ISN-CSM20-WGB/ ISC-CSM20-WGW	ISN-CSM35-W / ISN-CSM35-B	ISN-CSM35-WGW / ISN-CSM35-WGB	ISN-CMET-200AR	ISN-CFM-102W / ISN-CFM-102B	ISN-CMET-4418	ISN-C66	ISN-C60-W / ISN-C60-B	ISN-C45-W / ISN-C45-B
<b>Listings</b>	UL, CE	UL, CE	UL, CE	UL, CE	UL, CE	UL, CE	UL, CE	UL, CE	UL, CE
<b>Contact type</b>	Wide gap commercial	Standard	Wide gap commercial	Commercial armored	Flange mount	Overhead armored	Overhead track armored	Slim terminal	Miniature
<b>Gap width</b>	2.5 in (63.5 mm)	1 in (25 mm)	1.8 in (44.5 mm)	1.3 in (31.8 mm)	1 in (25 mm)	2 in (50.8 mm)	1.8 in (44.5 mm)	0.8 in (19 mm)	0.60 in (15.2 mm)
<b>Contact dimensions</b>	0.6 x 4.1 x 0.6 in (16 x 105 x 16 mm)	2.5 x 0.7 x 0.5 in (63 x 18.6 x 13 mm)	2.5 x 0.7 x 0.5 in (63 x 18.6 x 13 mm)	0.4 x 0.6 x 2 in (9.5 x 16 x 50.8 mm)	0.3 x 1.3 x 0.5 in (7.6 x 33.8 x 13.5 mm)	4 x 2 x 0.5 in (107 x 50.8 x 12 mm)	3.1 x 2.6 x 1.8 in (76.2 x 66 x 45.8 mm)	0.3 x 0.4 x 2 in (6.4 x 9.5 x 50.8 mm)	0.2 x 1.1 x 0.3 in (4.8 x 27 x 6.4 mm)
<b>Switch configuration type</b>	Single pole single throw (SPST)	Single pole single throw (SPST)	Single pole single throw (SPST)	Single pole single throw (SPST)	Single pole single throw (SPST)	Single pole single throw (SPST)	Single pole single throw (SPST)	Single pole single throw (SPST)	Single pole single throw (SPST)
<b>Operating temperature range</b>	-40° to 140° F (-40° to 60° C)	-40° to 140° F (-40° to 60° C)	-40° to 140° F (-40° to 60° C)	-40° to 140° F (-40° to 60° C)	-40° to 140° F (-40° to 60° C)	-40° to 140° F (-40° to 60° C)	-40° to 140° F (-40° to 60° C)	-40° to 140° F (-40° to 60° C)	-40° to 140° F (-40° to 60° C)
<b>Quantity</b>	1	10	10	1	10	1	1	10	10

## Recessed mount

Commercial type number (CTN)	ISN-CSD70-W / ISN-CSD70-B	ISN-CSD80-W / ISN-CSD80-B	ISN-CSTB-10W / ISN-CSTB-10B	ISN-CTC75-W / ISN-CTC75-B	ISN-CMINI-10W / ISN-CMINI-10B	ISN-CSTB-TCW / ISN-CSTB-TCB
<b>Listings</b>	UL, CE	UL, CE	UL, CE	UL, CE	UL, CE	UL, CE
<b>Contact type</b>	Compact	Compact	Compact	Compact	Miniature	Compact quick connect
<b>Gap width</b>	1.5 in (38 mm)	1.5 in (38 mm)	0.5 in (12.7 mm)	1 in (25 mm)	0.5 in (12.7 mm)	0.6 in (16 mm)
<b>Contact dimensions</b>	0.8 x 0.8 in (19 x 20.3 mm)	1 x 0.8 in (25 x 20 mm)	0.4 x 0.8 in (9.5 x 19 mm)	0.8 x 1.2 in (19 x 30 mm)	0.4 x 0.6 in (1 x 1.6 mm)	0.4 x 1 in (9.5 x 25 mm)
<b>Switch configuration type</b>	Single pole single throw (SPST)	Single pole single throw (SPST)	Single pole single throw (SPST)	Single pole single throw (SPST)	Single pole single throw (SPST)	Single pole single throw (SPST)
<b>Operating temperature range</b>	-45° to -140° F (7.2° to -95.6° C)	-45° to -140° F (7.2° to -95.6° C)	-45° to -140° F (7.2° to -95.6° C)	-45° to -140° F (7.2° to -95.6° C)	-45° to -140° F (7.2° to -95.6° C)	-45° to -140° F (7.2° to -95.6° C)
<b>Quantity</b>	10	10	10	10	10	10

## Technical Notes

\* Difficult environments include rooms with potential false alarm sources, such as: air conditioning vents, strong drafts of cold or warm air, slow moving objects such as curtains, plants, or signs hanging from the ceiling, a fan that could be running when the system is activated, under floor heating, room temperatures exceeding 86° F (30° C), a detector that could be exposed to bright white light (car headlights, floodlights, direct sunlight, etc.)

\*\* For UL installations the operating range is 32° to 120° F (0° to 49° C), indoor use.

\*\*\* Professional Series, Commercial Series, Blue Line Gen2 Series, RADION, self-locking enclosure, interchangeable mounting base, integrated bubble level, and removable lift-gate terminal strips.

† Wireless peripherals require a compatible receiver. B810 RADION receiver is compatible with SDI2 bus panels (B Series and G Series); RFRC-OPT is compatible with Option bus panels; RFRC-STR is compatible with Streamline bus panels.







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them  
in.

Keep  
them  
out.



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