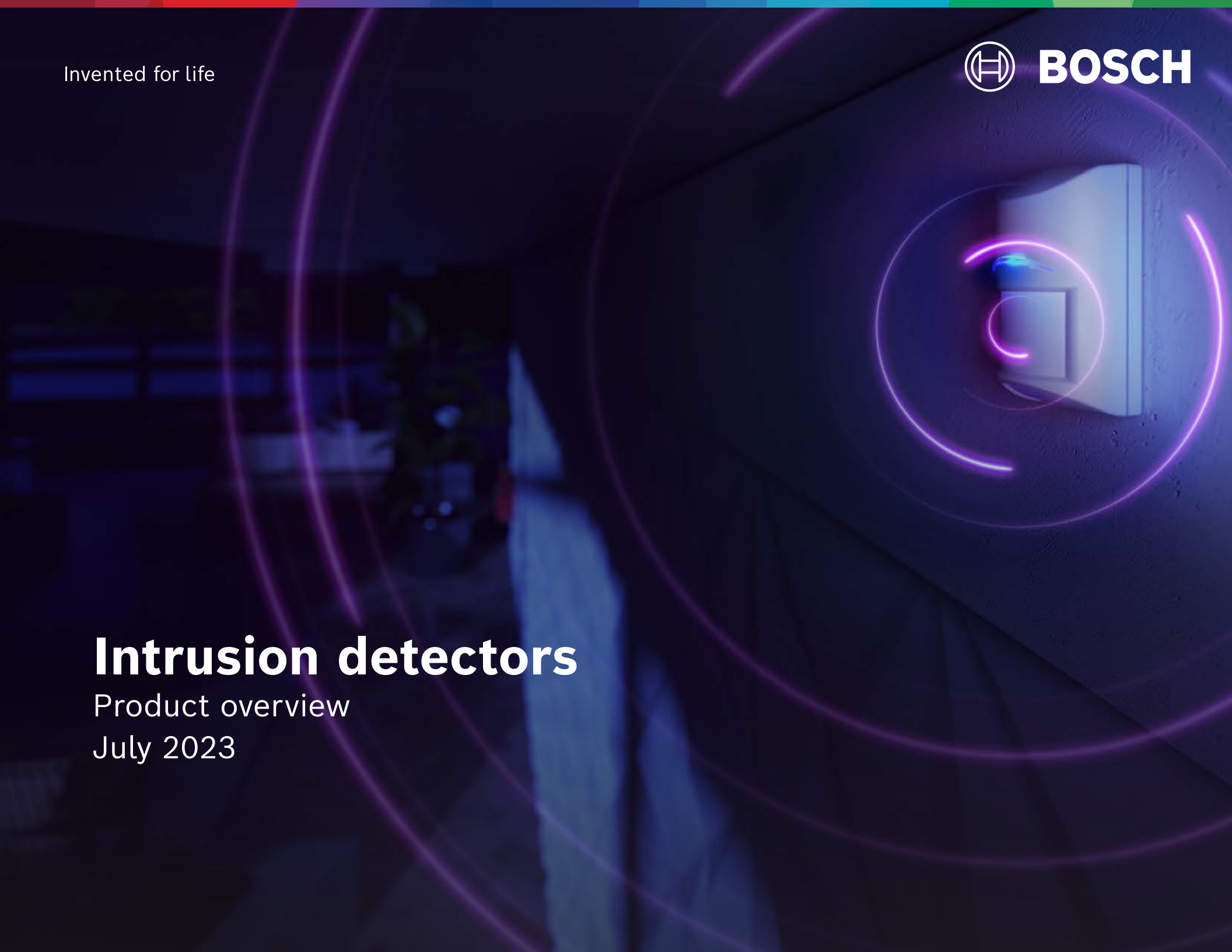
Invented for life

BOSCH



Intrusion detectors

Product overview

July 2023

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Ensure nothing really happens.

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.

Environment		PIR	TriTech
Standard	Small animals (e.g. rodents)	■	■
	Pets	■	■
Difficult	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

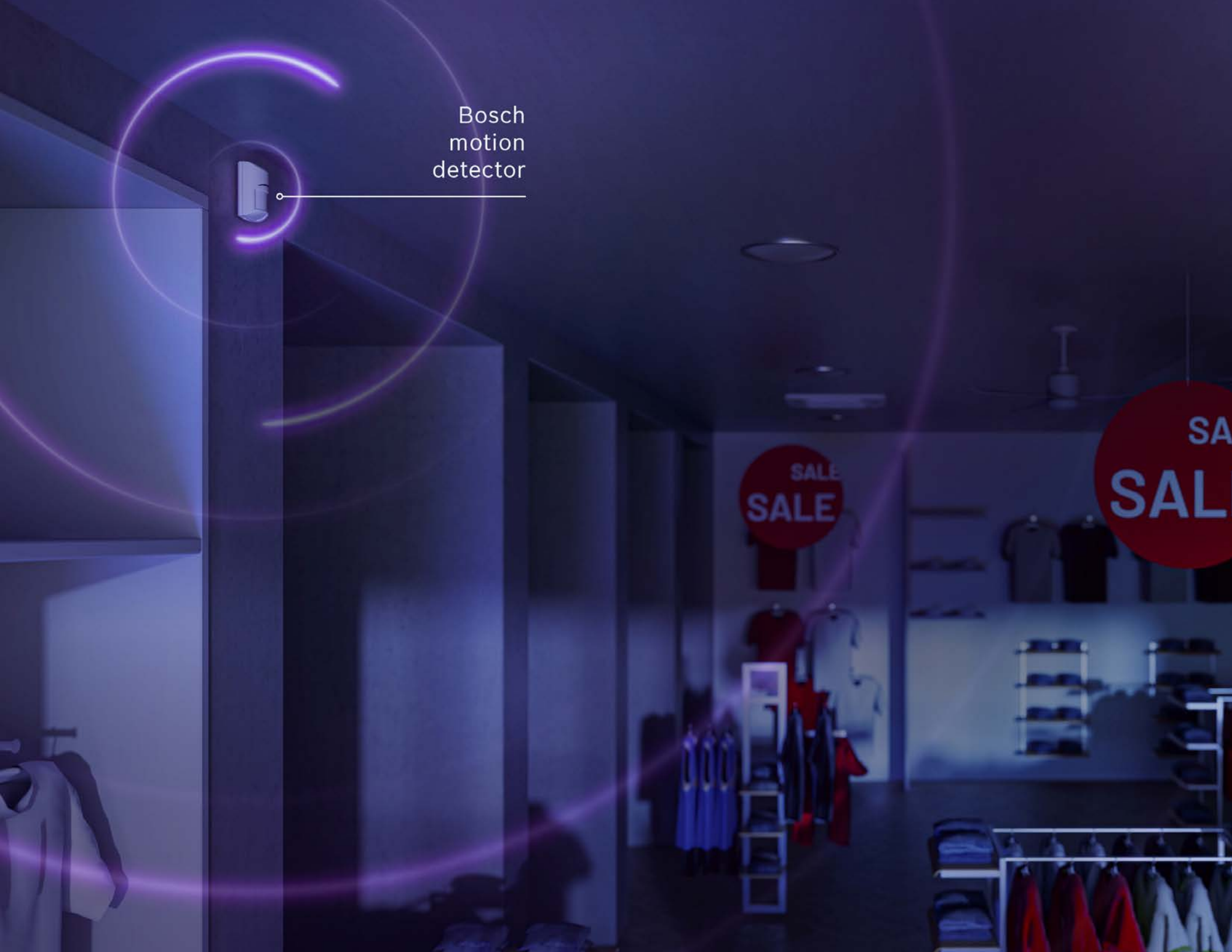
Our offering:

Blue Line Series
Commercial applications and residential

Commercial Series
High risk commercial applications

Professional Series
Large commercial applications

Ceiling mount
Applications where wall mount is not possible


Bosch
motion
detector
SALE
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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^2DT), 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.

*Only available in TriTech detectors

Easy to install

Designed with unique features that speed up installation

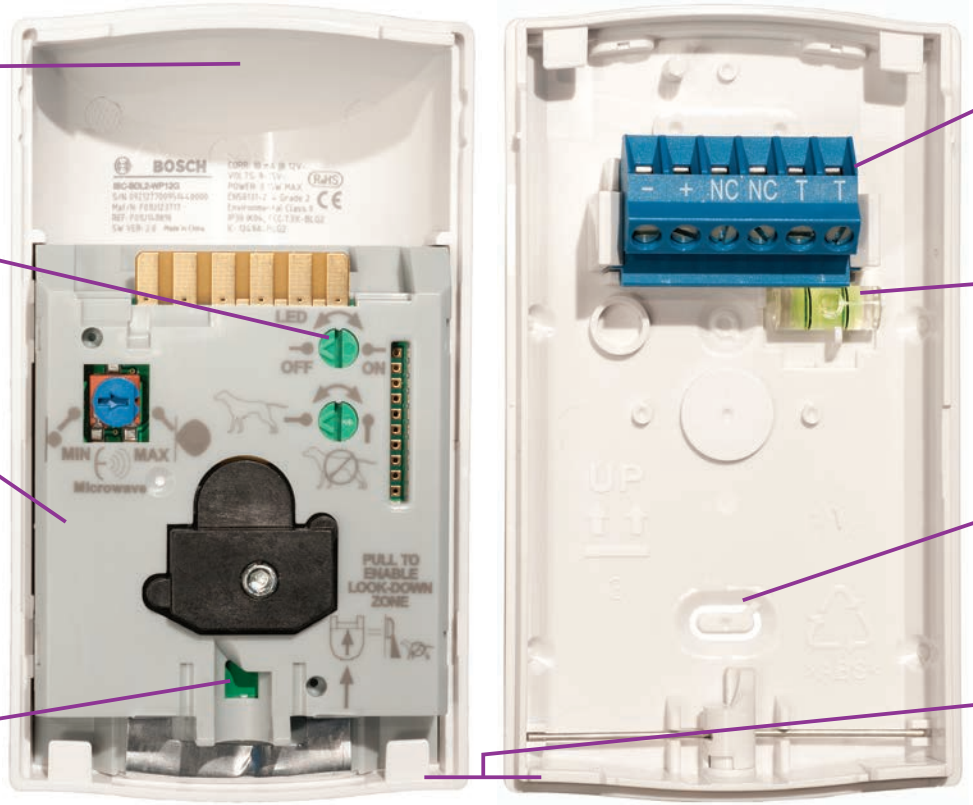
All Bosch motion detectors are designed with unique features that speed up installation by as much as 45% compared to models from other manufacturers. These features also reduce installer errors that can lead to false alarms or missed detection, thus reducing service calls.

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

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®
Commercial type number (CTN)		ISC-BPR2-W12	ISC-BPR2-WP12	ISC-BPQ2-W12	ISC-BDL2-W12x	ISC-BDL2-W12x	ISC-BDL2-W6x
Overview	**Application risk level**	Low to moderate risk	Low to moderate risk	Moderate risk	Low to moderate risk	Low to moderate risk	Low to moderate risk
	Environment*	Standard	Standard	Difficult	Difficult	Difficult	Difficult
Specifications	**Coverage/range**	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)	40 x 40 ft (12 x 12 m)	20 x 20 ft (6 x 6 m)
	Mounting height	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)	7.5 to 9 ft (2.3 to 2.8 m)
	Operating temperature**	-20º to 130º F (-30º to 55º C)	-20º to 130º F (-30º to 55º C)	-20º to 130º F (-30º to 55º C)	-20º to 130º F (-30º to 55º C)	-20º to 130º F (-30º to 55º C)	-20º to 130º F (-30º to 55º C)
	Operating voltage	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC
	Current draw (typical)	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA
Features	**First step processing**	■	■	■	■	■	■
	Microwave noise adaptive processing	–	–	–	■	■	■
	Dynamic temperature compensation	■	■	■	■	■	■
	Wall-to-wall coverage	■	■	■	■	■	■
	Look-down zone	■	■	■	■	■	■
	Pet/small animal immunity	10 lb (4.5 kg)	45 lb (20 kg)	10 lb (4.5 kg)	10 lb (4.5 kg)	100 lb (45 kg)	100 lb (45 kg)
	Alarm output	NC	NC	NC	NC	NC	NC
	Alarm memory	–	–	–	–	–	–
	Anti-mask	–	–	–	–	–	–
	Tamper	Cover	Cover	Cover	Cover	Cover	Cover
	Sealed optical chamber	■	■	■	■	■	■
Ease of Installation***	**No-adjust installation**	■	■	■	■	■	■
	Enable/disable LED	■	■	■	■	■	■
	Enable/disable pet immunity	–	■	–	–	■	■
	Enable/disable look-down	■	■	■	–	–	–
	Microwave Doppler range adjustment	–	–	–	■	■	■
	Remote walk test	–	–	–	–	–	–
	Remote self test	–	–	–	–	–	–
Certifications		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	CCC, FCC, IC, UL

■ Available – Not available

Commercial Series | Small to medium commercial

Material description		Standard TriTech®	Anti-mask TriTech®	Anti-mask TriTech®
Commercial type number (CTN)		ISC-CDL1-W15x	ISC-CDL1-WA15x	ISC-CDL1-WA12x
Overview	**Application risk level**	Moderate risk	High risk	High risk
	Environment*	Difficult	Difficult	Difficult
Specifications	**Coverage/range**	50 x 50 ft (15 x 15 m)	50 x 50 ft (15 x 15 m)	40 x 40 ft (12 x 12 m)
	Mounting height	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)
	Operating temperature**	-22º to 130º F (-30º to 55º C)	-22º to 130º F (-30º to 55º C)	-22º to 130º F (-30º to 55º C)
	Operating voltage	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC
	Current draw (typical)	10 mA	15 mA	15 mA
Features	**First step processing**	∎	∎	∎
	Microwave noise adaptive processing	∎	∎	∎
	Range adaptive radar	–	–	–
	Active white light suppression	∎	∎	∎
	Dynamic temperature compensation	∎	∎	∎
	Look-down zone	∎	∎	∎
	Pet/small animal immunity	10 lb (4.5 kg)	10 lb (4.5 kg)	10 lb (4.5 kg)
	Alarm output	NC	NC	NC
	Alarm memory	∎	∎	∎
	Anti-mask	–	∎	∎
	Tamper	Cover	Cover + wall	Cover + wall
	Sealed optical chamber	∎	∎	∎
Ease of Installation***	**No-adjust installation**	∎	∎	∎
	Enable/disable look-down	∎	∎	∎
	Enable/disable LED	∎	∎	∎
	Microwave Doppler range adjustment	∎	∎	∎
	Remote walk test	–	–	–
	Remote self test	–	–	–
Certifications		CCC, FCC, IC, UL	CCC, FCC, IC, UL	CCC, FCC, IC, UL

∎ Available – Not available

Professional Series | Large commercial and high security

Material description		Standard PIR	Anti-mask PIR	Standard TriTech	Anti-mask TriTech®	Curtain TriTech®	Anti-mask Curtain TriTech®
Commercial type number (CTN)		ISC-PPR1-W16	ISC-PPR1-WA16x	ISC-PDL1-W18x	ISC-PDL1-WA18x	ISC-PDL1-WC30x	ISC-PDL1-WAC30x
Overview	**Application risk level**	Moderate risk	High risk	Moderate risk	High risk	Moderate risk	High risk
	Environment*	Standard	Standard	Difficult	Difficult	Difficult	Difficult
Specifications	**Coverage/range**	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)	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)
	Mounting height	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)	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)
	Operating temperature**	-20º to 130º F (-29º to 55º C)	-22º to 130º F (-30º to 55º C)	-20º to 130º F (-29º to 55º C)	-22º to 130º F (-30º to 55º C)	-22º to 130º F (-30º to 55º C)	-22º to 130º F (-30º to 55º C)
	Operating voltage	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC
	Current draw (typical)	10 mA	18 mA	13 mA	18 mA	18 mA	18 mA
Features	**Sensor Data Fusion**	∎	∎	∎	∎	∎	∎
	Microwave noise adaptive processing	–	–	∎	∎	∎	∎
	Range adaptive radar	–	–	∎	∎	∎	∎
	Active white light supression	∎	∎	∎	∎	∎	∎
	Dynamic temperature compensation	∎	∎	∎	∎	∎	∎
	Look-down zone	∎	∎	∎	∎	∎	∎
	Pet/small animal immunity	10 lb (4.5 kg)	10 lb (4.5 kg)	10 lb (4.5 kg)	10 lb (4.5 kg)	10 lb (4.5 kg)	10 lb (4.5 kg)
	Alarm output	NC	NC	NC	NC	NC	NC
	Alarm memory	∎	∎	∎	∎	∎	∎
	Anti-mask	–	∎	–	∎	–	∎
	Tamper	Cover + wall	Cover + wall	Cover + wall	Cover + wall	Cover + wall	Cover + wall
	Sealed optical chamber	∎	∎	∎	∎	∎	∎
Ease of Installation***	**No-adjust installation**	∎	∎	∎	∎	∎	∎
	Enable/disable look-down	∎	∎	∎	∎	∎	∎
	Long/short select range	∎	∎	∎	∎	–	–
	Microwave Doppler range adjustment	–	–	∎	∎	∎	∎
	Remote walk test	∎	∎	∎	∎	∎	∎
	Remote self test	∎	∎	∎	∎	∎	∎
Certifications		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	CCC, FCC, IC, UL	CCC, FCC, IC, UL	–

∎ Available – Not available

Ceiling Mount

Material description		Low-profile PIR	High-performance PIR	High-performance TriTech®
Commercial type number (CTN)		DS936	DS939	DS9370 / DS9371
Overview	**Application risk level**	Low to moderate risk	Moderate risk	Moderate risk
	Environment*	Standard	Standard	Difficult
Specifications	**Optics**	Fresnel	Triple 35-zone Frensel	Triple 35-zone Frensel
	Coverage/range	24 ft (7 m) diameter	52 ft (16 m) diameter	52 ft (16 m) diameter
	Mounting height	7 to 12 ft (2.1 to 3.6 m)	8 to 20 ft (2.4 to 6 m)	8 to 20 ft (2.4 to 6 m)
	Operating temperature**	-20º to 120º F (-29º to 49º C)	-20º to 120º F (-29º to 49º C)	-20º to 120º F (-29º to 49º C)
	Operating voltage	10 to 15 VDC	9 to 15 VDC	9 to 15 VDC
	Current draw (typical)	20 mA	12 mA	19 mA
Features	**First Step Processing**	–	∎	∎
	Motion Analyzer II signal processing	–	–	–
	PIR supervision	–	–	–
	Microwave supervision	–	–	∎
	Microwave noise adaptive processing	–	–	∎
	Dynamic temperature compensation	–	∎	∎
	Pet/small immunity	–	–	–
	Pattern masking	∎	∎	∎
	Alarm output	NC	NC/NO	NC/NO
	Alarm memory	–	∎	∎
	Tamper	Cover	Cover + wall	Cover + wall
	Sealed optical chamber (insect/dust)	∎	∎	∎
Ease of Installation***	**Interchangeable optics**	–	–	–
	Switchable coverage patterns	–	∎	∎
	Enable/disable LED	∎	∎	∎
	PIR sensitivity adjustment	∎	∎	∎
	Microwave Doppler range adjustment	–	–	∎
	Flexible mounting height	∎	∎	∎
	Remote walk test	–	∎	∎
	Remote self test	–	–	–
Certifications		CCC, CE, UL	AFNOR, CCC, CE, EN50131-2-2 Grade 2, INCERT, UL	CCC, FCC, IC, UL

∎ Available – Not available

Long Range

Material description		Long Range PIR	Long Range TriTech	Long Range PIR
Commercial type number (CTN)		DS794Z	DS720i	DS778
Overview	**Application risk level**	Moderate risk	Moderate risk	Moderate risk
	Environment*	Standard	Difficult	Standard
Specifications	**Optics**	Field-replaceable	Field-changeable mirrored optics	Point-able mirrored Optics
	Coverage/range	200 x 10 ft (61 x 3 m)	300 x 15 ft (91 x 4.6 m)	200 x 15 ft (60 x 4.5 m)
	Mounting height	15 ft (5 m) maximum	10 ft (3 m) maximum	6.5 to 8.5 ft (2 to 2.6 m) recommended
	Operating temperature**	-20° to 120° F (-29° to 49° C)	-20° to 120° F (-29° to 49° C)	-40° to 120° F (-40° to 49° C)
	Operating voltage	6 VDC to 15 VDC	9 VDC to 15 VDC	6 VDC to 15 VDC
	Current draw (typical)	18 mA at 12 VDC 25 mA at 12 VDC (DS794ZE)	32 mA nominal at 12 VDC; up to 60 mA during walk test, stored alarm, or trouble conditions.	18 mA at 12 VDC
Features	**Motion Analyzer II signal processing**	∎	∎	∎
	PIR supervision	∎	∎	∎
	Microwave supervision	–	∎	–
	Microwave noise adaptive processing	–	–	–
	Dynamic temperature compensation	–	–	–
	Pet/small immunity	–	–	∎
	Pattern masking	∎	∎	∎
	Anti-masking with spray detect	–	∎	–
	Alarm output	NC/NO	NC/NO	NC/NO
	Alarm memory	–	∎	–
	Tamper	Cover	Cover + w all	Cover
	Sealed optical chamber (insect/dust)	–	–	∎
Ease of Installation***	**Interchangeable optics**	∎	∎	–
	Switchable coverage patterns	∎	∎	–
	Enable/disable LED	∎	∎	∎
	PIR sensitivity adjustment	∎	∎	∎
	Microwave Doppler range adjustment	–	∎	–
	Flexible mounting height	∎ up to 15 ft (5 m)	∎ up to 10 ft (3 m)	∎ 6.5 to 8.5 ft (2 to 2.6 m)
	Remote walk test	∎	∎	∎
	Remote self test	∎	∎	∎
Certifications		UL, CE, CCC	UL, FCC, CCC, ANATEL, iDA, CNBOP	UL, GOST

∎ Available – Not available

Seismic/Shock | Specialty

Material description		Standard Seismic	High-performance Seismic	Shock
Commercial type number (CTN)		ISN-SM-50	ISN-SM-80	ISC-SK10
Overview	**Type**	Thermal, Mechanical, Explosive, Water Attack Detection	Thermal, Mechanical, Explosive, Water Attack Detection	Mechanical Attack Detection
	Application type	Small to large commercial	Small to large commercial	Residental to large commercial
	Application risk level	High risk	High risk	High risk
	Environment	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
Specifications	**Coverage/range**	538 ft² (50 m²)	861 ft² (80 m²)	5 to 11.5 ft (1.5 to 3.5 m) radius
	Operating temperature**	-40º to 158º F (-40º to 70º C)	-40º to 158º F (-40º to 70º C)	-14º to 131º F (-10º to 55º C)
	Operating voltage	8 to 16 VDC	8 to 16 VDC	9 to 15 VDC
	Current draw (typical)	3 mA	3 mA	8.5 mA
	Environmental rating	IP43	IP43	IP43
Features	**Anti-drilling shield**	∎	∎	–
	Temperature supervision	∎	∎	–
	Voltage monitoring	∎	∎	–
	Automatic self test	∎	∎	–
	Local event memory	–	∎	–
	Alarm output	NC solid state relays	NC solid state relays	NC solid state relays
	LED	–	–	Green, red
	Tamper	Cover + wall	Cover + wall	Cover
Ease of installation	**Intelligent installation mode**	–	–	∎
	Mounting and function test	∎	∎	∎
	Sensitivity adjustment	∎	∎	∎
	Mounting location	Steel, concrete	Steel, concrete	Any
	Installation accessories	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)	–
	Software options	ISN-SMS-W7 SensTool PC Software	ISN-SMS-W7 SensTool PC Software	–
Certifications	**Approvals/listings**	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
Commercial type number (CTN)		DS1101i	DS1102i	DS1103i	DS1109i
Overview	**Application type**	Residential to large commercial	Residential to large commercial	Residential to large commercial	Residential to large commercial
	Application risk level	Low to moderate risk	Low to moderate risk	Low to moderate risk	Low to moderate risk
	Environment	Standard	Standard	Standard	Standard
Specifications	**Coverage/range**	25 ft (7.6 m) diameter	25 ft (7.6 m) diameter	25 ft (7.6 m) diameter	10 ft (3 m) diameter
	Operating temperature**	-20º to 120º F (-29º to 49º C)	-20º to 120º F (-29º to 49º C)	-20º to 120º F (-29º to 49º C)	-20º to 120º F (-29º to 49º C)
	Operating voltage	6 to 15 VDC	6 to 15 VDC	9 to 15 VDC	6 to 15 VDC
	Current draw (typical)	23 mA	23 mA	21 mA	21 mA
Features	**Sound Analysis Technology (SAT) processing**	NC/NO	NC/NO	NC	NC
	Alarm output	∎	∎	∎	∎
	LED indicator	–	–	–	–
	Tamper	∎	∎	–	∎
Ease of installation	**Mounting location**	Wall, ceiling	Wall, ceiling	Wall, ceiling (flush)	Door, window frame
	Installation accessories	Glass Break Tester (DS1110i)	Glass Break Tester (DS1110i)	Glass Break Tester (DS1110i)	Glass Break Tester (DS1110i)
Certifications		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	**Coverage/range**	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)
	Mounting height	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)
	Operating temperature**	-20º to 120º F (-29º to 49º C)	-20º to 120º F (-29º to 49º C)	-20º to 120º F (-29º to 49º C)	-20º to 120º F (-29º to 49º C)
	Operating voltage	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
	Current draw (typical)	26 mA nominal	26 mA nominal	8 mA nominal	8 mA nominal
Features	**Door monitor with sounder**	–	–	∎	∎
	Keycard reader input	–	–	∎	∎
	Sequential logic input	–	–	∎	∎
	Relay fail-safe/fail-secure	∎	∎	∎	∎
	Relay settable select	∎	∎	∎	∎
	Relay latch time adjustment	0.25 to 60 seconds	0.25 to 60 seconds	0.5 to 64 seconds	0.5 to 64 seconds
	Pattern masking	∎	∎	∎	∎
	Alarm output/memory	–/∎	–/∎	–/∎	–/∎
	Tamper	–	–	∎	∎
	Pointable optics	Vertical adjustment	Vertical adjustment	Vertical adjustment	Vertical adjustment
	Switchable relay mode	∎	∎	∎	∎
	Switchable timer reset mode	∎	∎	∎	∎
	Adjustable sounder volume	–	–	∎	∎
	PIR sensitivity adjustment	∎	∎	∎	∎
	Enable/disable LED	–	–	∎	∎
	Flexible mounting height	∎	∎	∎	∎
Certifications		UL, CE	UL, CE	UL, CE	UL, CE

∎ Available – Not available

Outdoor Motion

Material description	Outdoor TriTech Detector
Commercial type number (CTN)	OD850
Application Risk Level	Moderate risk
Environment	Difficult
IP RATING	IP54
Coverage / Range	50 x 50 ft (15 x 15 m)
Mounting Height	7 to 9 ft (2.1 to 2.7 m)
Operating Temperature	-31° to 130° F (-35° to 60° C)
Operating Voltage	10 to 15 VDC
Current Draw (typical)	22 mA
Motion Analyzer II Singal Processing	∎
PIR Supervision	∎
Microwave Supervision	∎
Microwave Noise Adaptive Processing	∎
Dynamic temperature compensation	∎
Pet/small animal immunity	–
Pattern Masking	–
Anti-Masking with spray detect	–
Alarm output	NC and Form C
Alarm memory	–
Tamper	Cover
Sealed optical chamber (insect/dust)	∎
Interchangeable optics	–
Switchable coverage patterns	–
Enable/disable LED	∎
PIR Sensitivity Adjustment	∎
Flexible mounting height	∎
Remote walk test	–
Remote self test	–
Certifications	CE, GOST, UL, FCC, CTICK, ULC, CCC, ANATEL, iDA

∎ Available – Not available

RADION† | Wireless

Material description		Standard PIR	Curtain PIR	Standard TriTech®
Commercial type number (CTN)		RFPR-12	RFPR-C12	RFDL-11
Overview	**Application risk level**	Low to moderate risk	Low to moderate risk	Low to moderate risk
	Environment*	Standard	Standard	Difficult
Specifications	**Frequency**	433.42 MHz	433.42 MHz	433.42 MHz
	Coverage/range	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)
	Mounting height	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)
	Operating temperature**	14º to 120º F (-10º to 49º C)	14º to 120º F (-10º to 49º C)	14º to 120º F (-10º to 49º C)
	Operating voltage	3 VDC	3 VDC	6 VDC
	Power source	One CR123A Lithium battery	One CR123A Lithium battery	Four AA Alkaline batteries
	Battery life	Up to 5 years	Up to 5 years	Up to 5 years
Features	**Motion Analyzer II signal processing**	∎	∎	∎
	Microwave noise adaptive processing	–	–	∎
	Dynamic temperature compensation	∎	∎	∎
	Wall-to-wall coverage	∎	∎	∎
	Look-down zone	∎	∎	∎
	Pet/small animal immunity	30 lb (13 kg)	30 lb (13 kg)	100 lb (45 kg)
	Anti-mask	–	–	–
	Tamper	Cover + wall	Cover + wall	Cover + wall
	Sealed optical chamber	∎	∎	∎
Ease of installation***	**No adjust installation**	∎	∎	–
	Enable/disable LED	–	–	–
	Enable/disable pet immunity	–	–	∎
	Enable/disable look-down	∎	∎	∎
	Switchable detection patterns	–	–	–
	Microwave Doppler range adjustment	–	–	∎
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
Commercial type number (CTN)		RFDW-SM	RFDW-RM	RFUN
Specifications	**Frequency**	433.42 MHz	433.42 MHz	433.42 MHz
	Coverage/range	–	–	–
	Reed switch gap width	< 0.8 in (19 mm)	< 0.8 in (19 mm)	< 0.8 in (19 mm)
	Operating temperature*	14º to 120º F (-10º to 49º C)	14º to 120º F (-10º to 49º C)	14º to 120º F (-10º to 49º C)
	Operating voltage	1.5 VDC	1.5 VDC	1.5 VDC
	Power source	One AAA Lithium battery	One AAA Lithium battery	One CR123A Lithium battery
	Battery life	Up to 5 years	Up to 5 years	Up to 5 years
Features	**Tamper**	∎	∎	∎
	LED indicator	–	–	–
Certifications		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
Commercial type number (CTN)		RFCO	RFSM2	RFHT
Specifications	**Frequency**	433.42 MHz	433.42 MHz	433.42 MHz
	Temperature range	–	135° +/- 4° F (57° +/- 2° C)	135° +/- 4° F (57° +/- 2° C)
	Mounting gap	–	–	–
	Operating temperature**	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)
	Operating voltage	3 VDC	3 VDC	3 VDC
	Power source	Two 1.5 V AAA battery	Two 1.5 V AAA battery	Two 1.5 V AAA battery
	Battery life	Up to 6 years	Up to 10 years	Up to 10 years
Features	**Tamper**	∎	∎	∎
	LED indicator	∎	∎	∎
Certifications		UL, FCC, IC	UL, FCC, IC	UL, FCC, IC

∎ Available – Not available

RADION† | Wireless

Material description		Glass Break	Bill Trap	Keyfob	Panic Button
Commercial type number (CTN)		RFGB	RFBT	RFKF-FBS, RFKF-TBS	RFPB
Specifications	**Frequency**	433.42 MHz	433.42 MHz	433.42 MHz	433.42 MHz
	Coverage/range	20 ft (6 m) diameter	–	–	–
	Mounting gap	–	–	–	–
	Operating temperature**	14º to 120º F (-10º to 49º C)	14º to 120º F (-10º to 49º C)	14º to 120º F (-10º to 49º C)	14º to 120º F (-10º to 49º C)
	Operating voltage	3 VDC	1.5 VDC	3 VDC	3 VDC
	Power source	One CR123A Lithium battery	One AAA Lithium battery	One CR2032 Lithium battery	One CR2032 Lithium battery
	Battery life	Up to 5 years	Up to 5 years	Up to 5 years	Up to 5 years
Features	**Tamper**	∎	∎	–	–
	LED indicator	∎	∎	∎	∎
	Synchronized encryption	–	–	∎ (FBS, TBS models)	–
Certifications		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	Inertia
Commercial type number (CTN)		RFPB-FP	RF3405E
Specifications	**Frequency**	433.42 MHz	433.42 MHz
	Coverage/range	–	–
	Mounting gap	–	–
	Operating temperature**	14° to 130° F (-10° to 55° C)	-4° to 151° F (-20° to 60° C)
	Operating voltage	3 VDC	3 VDC
	Power source	One CR123A	One CR123A
	Battery life	Up to 5 years	Up to 5 years
Features	**Tamper**	∎	∎
	LED indicator	–	∎
	Synchronized encryption	–	–

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
Commercial type number (CTN)	EN1210	EN1210EOL	EN1210W	EN1215EOL	EN1215WEOL	EN1223S, EN1223D	EN1233S, EN1233D	EN1235S, EN1235D
Frequency	900 - 928 MHz	901 - 928 MHz	902 - 928 MHz	903 - 928 MHz	904 - 928 MHz	905 - 928 MHz	906 - 928 MHz	908 - 928 MHz
Coverage / range	–	–	–	–	–	–	–	–
Mounting gap	–	–	0.6 in (15.9 mm)	–	0.6 in (15.9 mm)	–	–	–
Operating temperature	-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)
Operating voltage	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC
Power source	One CR123A	One CR123A	One CR123A	One CR123A	One CR123A	One CR2450	One CR2	One CR2
Battery life	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
Tamper	∎	∎	∎	∎	∎	–	–	–
Led indicator	–	–	–	–	–	∎	∎	∎
Certifications	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, High Traffic PIR	Motion Detector, Pet Immune PIR	Motion Detector, Ceiling Mount PIR
Commercial type number (CTN)	EN1235SF, EN1235DF	EN1244	EN1247	EN1249	EN1260	EN1261HT	EN1262	EN1265
Frequency	909 - 928 MHz	910 - 928 MHz	911 - 928 MHz	912 - 928 MHz	913 - 928 MHz	914 - 928 MHz	915 - 928 MHz	916 - 928 MHz
Coverage / range	–	32° to 120° F (-0° to 50° C)	20 ft (6 m)	–	50 x 50 ft (15 x 15 m)	50 x 50 ft (15 x 15 m)	40 x 40 ft (12 x 12 m)	65 ft diameter (20 m)
Mounting gap	–	–	–	–	–	–	–	–
Operating temperature	32° to 140° F (0° to 60° C)	32° to 120° F (-0° to 50° C)	-4° to 140° F (-20° to 60° C)	-4° to 140° F (-20° to 60° C)	-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 120° F (0° to 49° C)
Operating voltage	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC	3 VDC
Power source	One CR2	One CR123A	One CR123A	One CR123A	One CR123A	One BAT610	One CR123A	One CR123A
Battery life	Up to 5 years	Up to 5 years	Up to 3 years	Up to 5 years	Up to 2 years	Up to 4 years	Up to 2 years	Up to 4 years
Tamper	∎	∎	∎	∎	∎	∎	∎	∎
Led indicator	∎	∎	∎	∎	∎	∎	∎	∎
Certifications	FCC, RoHS, UL	FCC, UL, CSFM	FCC	UL	FCC	FCC	FCC	FCC

∎ Available – Not available

ZigBee | Wireless

Material description		Standard PIR	Standard TriTech®
Commercial type number (CTN)		RFPR-ZB	RFDL-ZB
Overview	**Application risk level**	Low to moderate risk	Low to moderate risk
	Environment*	Standard	Difficult
Specifications	**Frequency**	2.4 GHz	2.4 GHz
Features	**Coverage/range**	40 x 40 ft (12 x 12 m)	40 x 40 ft (12 x 12 m)
	Mounting height	7.5 to 9 ft (2.3 to 2.7 m)	7.5 to 9 ft (2.3 to 2.7 m)
	Operating temperature**	14º to 131º F (-10º to 55º C)	14º to 131º F (-10º to 55º C)
	Operating voltage	3 VDC	3 VDC
	Power source	CR123A Lithium battery	CR123A Lithium battery
	Battery life	Up to 6 years (one battery) Up to 10 years (two batteries)	Up to 3 years (one battery) Up to 6 years (two batteries)
	First Step Processing	∎	∎
	Microwave noise adaptive processing	–	∎
	Dynamic temperature compensation	∎	∎
	Wall-to-wall coverage	∎	∎
	Look-down zone	∎	∎
	Pet/small animal immunity	45 lb (20 kg)	100 lb (45 kg)
	Anti-mask	–	–
	Tamper	Cover + wall	Cover + wall
	Sealed optical chamber	∎	∎
Ease of installation***	**No-adjust installation**	∎	∎
	Enable/disable LED	∎	∎
	Enable/disable pet immunity	∎	∎
	Enable/disable look-down	∎	∎
	Microwave Doppler range adjustment	–	∎
Certifications		FCC, IC, cETLus, ZigBee, iControl	FCC, IC, cETLus, ZigBee, iControl

∎ Available – Not available

		Multi-sensor
		RFMS-ZBMS
Specifications	**Frequency**	2.4 GHz
	Sensor gap width	≥ 1.3 in (33 mm)
	Operating temperature**	14º to 131º F (-10º to 55º C)
	Operating voltage	3 VDC
	Power source	One CR2 Lithium battery
	Battery life	Up to 5 years
Features	**Hall effect contact sensor**	∎
	Water detection	∎
	Tilt detection	∎
	Low temperature alarm	∎
	Tamper	∎
	LED indicator	∎
	Synchronized encryption	∎
Certifications		FCC, IC, cETLus, ZigBee

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
Listings	UL, CE	UL, CE	UL, CE	UL, CE	UL, CE	UL, CE	UL, CE	UL, CE	UL, CE
Contact type	Wide gap commercial	Standard	Wide gap commercial	Commercial armored	Flange mount	Overhead armored	Overhead track armored	Slim terminal	Miniature
Gap width	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)
Contact dimensions	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)
Switch configuration type	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)
Operating tempterature range	-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)
Quantity	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
Listings	UL, CE	UL, CE	UL, CE	UL, CE	UL, CE	UL, CE
Contact type	Compact	Compact	Compact	Compact	Miniature	Compact quick connect
Gap width	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)
Contact dimensions	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)
Switch configuration type	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)
Operating tempterature range	-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)
Quantity	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 and ZigBee models feature a two-piece design, 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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