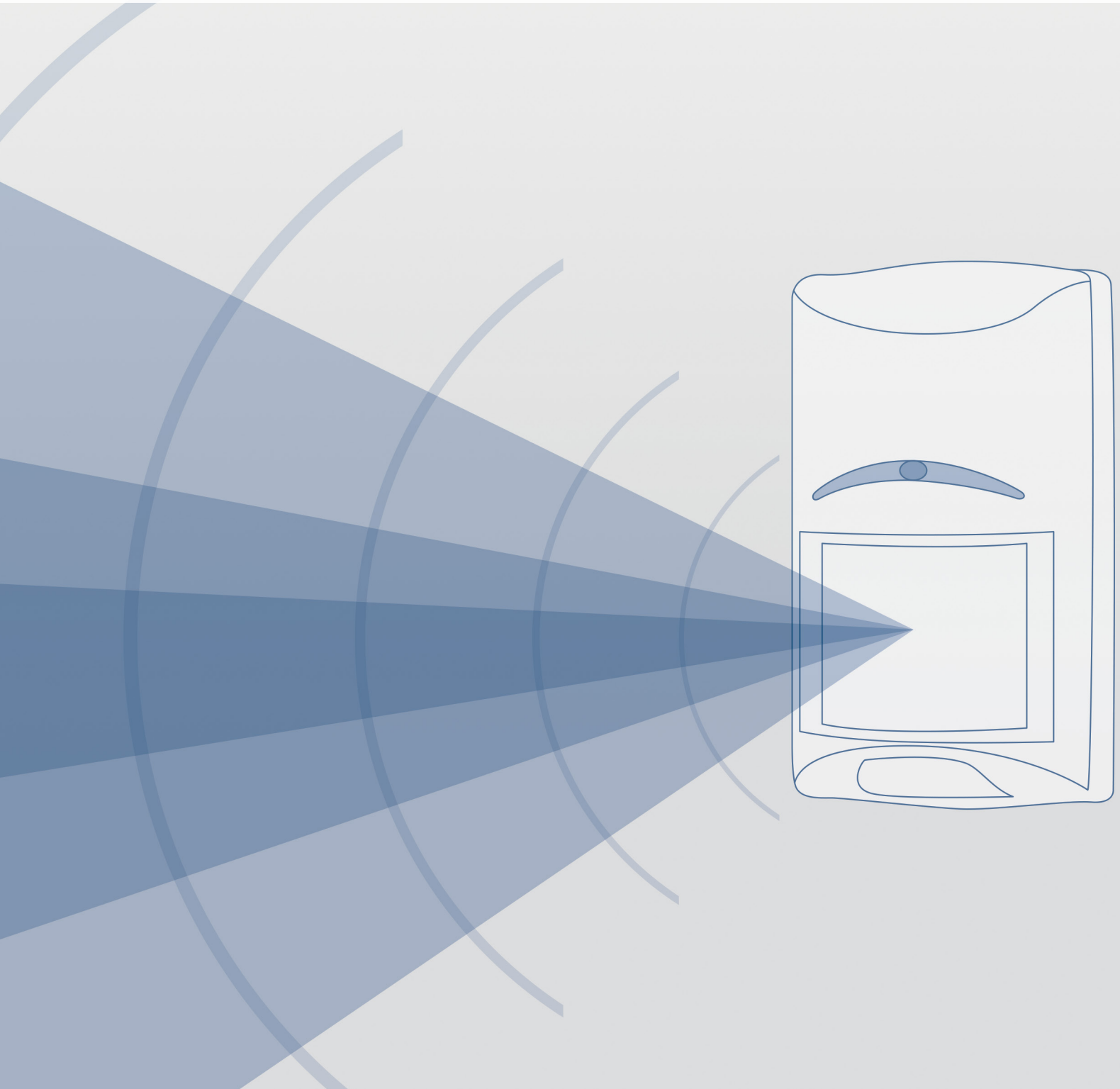
Intrusion Detector
Reference Guide

BOSCH
Invented for life



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Security you can rely on

Whether you're securing a home, retail store, bank, museum, commercial business or government facility, you need dependability from your systems. With decades of experience and an unwavering dedication to high-quality and high-performing products, Bosch detectors provide best-in-class false alarm immunity and catch performance while minimizing installation time and complexity. Millions of residential and commercial users rely on Bosch for superior intrusion detection.

Bosch is recognized throughout the security industry as a global leader in intrusion detection expertise. We've earned this reputation by consistently providing products that meet your needs with a focus on performance, reliability, durability and ease of installation.

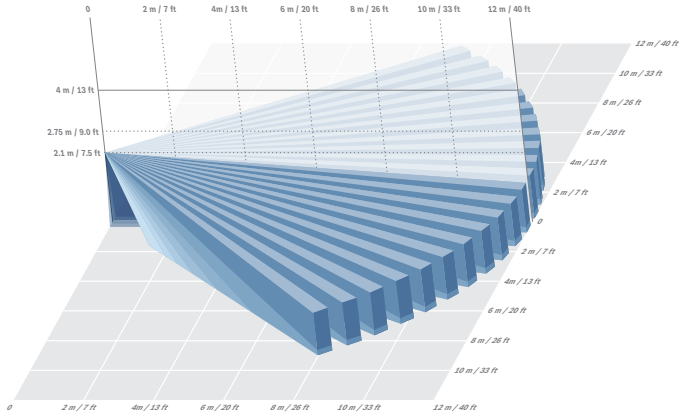
Bosch detectors fulfill the requirements of standards all over the world. In the state-of-the-art Bosch laboratory we verify that our detectors pass the most stringent requirements of each certification standard. Bosch also designs its own, even more demanding, tests to ensure the detectors are virtually immune to environmental disturbances. As a result, false alarm protection and catch performance exceed the requirements of any single country. With Bosch detectors, there is no hiding place for intruders and zero tolerance for false alarms.

Wall-to-Wall coverage

Excellent catch performance

First Step Processing intelligently analyzes motion for an almost instant response to intruders. The detectors automatically adjust to their environment by compensating for temperature fluctuations, so you're guaranteed optimal performance regardless of changes in room conditions.

For more challenging applications, models with Sensor Data Fusion technology employ a sophisticated software algorithm to analyze signals from multiple sensors, including microwave, temperature and white light levels, to make the most intelligent alarm decisions in the security industry.



No more false alarms

Bosch detectors feature Microwave Noise Adaptive Processing to easily differentiate humans from false alarm sources, such as a ceiling fan or hanging sign. For increased reliability, dual sensors process the PIR and microwave Doppler radar signals independently and must agree there is an alarm before the relay activates. The sealed optical chamber also prevents drafts and insects from affecting the detector. Bosch pet and small animal immunity provides optimal sensitivity for any application.

Minimize time on the ladder

Bosch detectors include a number of unique design features to help you get the job done faster and more reliably.

- A self-locking, two piece enclosure means no more lost screws and an easy snap-to-lock installation
- Integrated biaxial bubble level eliminates the guesswork to ensure proper alignment, requiring one less installation tool
- The removable, gap-free, liftgate-style terminal strip reduces mounting time to mere seconds and prevents incorrect wiring to eliminate future service calls
- Optics and electronics are assembled into the front enclosure and sealed with a protective cover to prevent damage during installation
- A flexible mounting height makes positioning the detector easy, and you get no-gap coverage without any optical or electronic on-site adjustments

Selectable Pet Immunity

Only Bosch exclusive technology allows the installer to turn pet immunity on or off to suit the application requirements.

Use the same model for multiple applications to reduce your inventory—just select Pet or No Pet! Selecting Pet minimizes nuisance false alarms from animals up to 100 lbs. (40 kg.), so you only handle valid alarms.

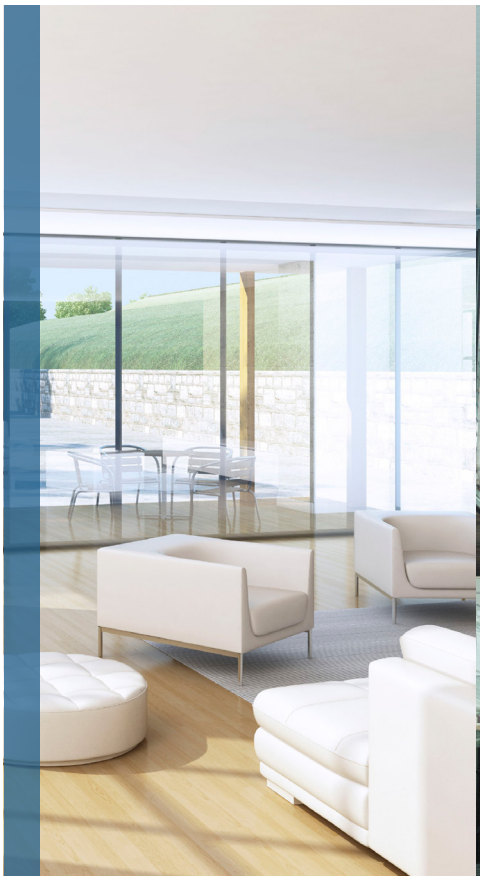
Ideal for any application

Intelligent intrusion detection is a delicate balance between responding to real security breaches and ignoring sources of costly false alarms. Bosch offers a choice of detector models that set the standard for reliability and rapid detection.

Our intrusion detectors suit the requirements of virtually any application—from residential to large commercial to high security. They stand up to multiple challenges, including strong drafts, moving objects and the presence of pets.

Our complete line includes:

- Passive Infrared (PIR) and TriTech®
  (Combination PIR and microwave Dopper radar)
  - Long-range
  - 360° ceiling mount
  - Pet friendly®
- Request-to-exit PIR
- Glass break
- Seismic and shock
- Photoelectric beam
- Wireless communication



Blue Line Gen2 Series

Detection is Power

		PIR		
		Standard	Pet Friendly®	Quad PIR
Description		**ISC–BPR2–W12**	**ISC–BPR2–WP12**	**ISC–BPQ2–W12**
Overview	Application type	Residential to Small Commercial		
	Application risk level	Low to moderate risk		Moderate risk
	Environment *	Standard		Difficult
Specifications	Optics	77 Zone Fresnel lens		
	Coverage/range	40 x 40 ft (12 x 12 m)		
	Mounting height	7 to 9 ft (2.2 to 2.75 m)		
	Operating temperature **	–20° to 130°F (–30° to 55°C)		
	Operating voltage	9 to 15 VDC		
	Current draw (typical)	10 mA		
Features	First step processing	■	■	■
	Sensor Data Fusion	–	–	–
	Microwave noise adaptive processing	–	–	–
	Range adaptive radar	–	–	–
	Active white light suppression	–	–	–
	Dynamic temperature compensation	■	■	■
	Wall-to-wall coverage	■	■	■
	Tri-focus optics	–	–	–
	Look-down zone	■	■	■
	Pet/small animal immunity	10 lb (4.5 kg)	45 lb (20 kg)	10 lb (4.5 kg)
	Pattern masking	–	–	–
	Alarm memory	–	–	–
	Alarm output	■	■	■
	LED indicator	Blue		
	Anti-mask	–	–	–
	Tamper	■	■	■
	Insect/dust immunity	■	■	■
Ease of installation	Two-piece design	■	■	■
	Self-locking enclosure	■	■	■
	Interchangeable mounting base	■	■	■
	Bubble level	■	■	■
	Removable lift-gate terminal strips	■	■	■
	Enable/disable LED	■	■	■
	Enable/disable pet immunity	–	■	–
	Enable/disable look-down	■	■	■
	Switchable detection patterns	–	–	–
	PIR sensitivity adjustment	Automatic		
	Microwave Doppler range adjustment	–	–	–
	Flexible mounting height	■	■	■
	Mounting location	Surface, semi-flush, corner		
	Installation accessories	B328 Gimbal-mount, B335 Swivel-mount, B338 Ceiling-mount		
	Remote walk test	■	■	■
	Remote self test	–	–	–
Certification	Approvals/listings	AFNOR, CCC, CE, EN50131–2–2 Grade 2, INCERT, UL		

* 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°F to 120°F (0°C to 49°C), indoor use

		TriTech® (PIR + MW)		
		Standard	**Pet Friendly®**	

Description		**ISC–BDL2–W12x**	**ISC–BDL2–WP12x**	**ISC–BDL2–WP6x**
Overview	Application type	Residential to Small Commercial		
	Application risk level	Low to moderate risk		
	Environment *	Difficult		
Specifications	Optics	77 Zone Fresnel lens		
	Coverage/range	40 x 40 ft (12 x 12 m)		20 x 20 ft (6 x 6 m)
	Mounting height	7 to 9 ft (2.2 to 2.75 m)		
	Operating temperature **	–30° to 55°C (–20° to 130°F)		
	Operating voltage	9 to 15 VDC		
	Current draw (typical)	10 mA		
Features	First step processing	■	■	■
	Sensor Data Fusion	–	–	–
	Microwave noise adaptive processing	■	■	■
	Range adaptive radar	–	–	–
	Active white light suppression	–	–	–
	Dynamic temperature compensation	■	■	■
	Wall-to-wall coverage	■	■	■
	Tri-focus optics	–	–	–
	Look-down zone	■	■	■
	Pet/small animal immunity	10 lb (4.5 kg)	100 lb (45 kg)	
	Pattern masking	–	–	–
	Alarm memory	–	–	–
	Alarm output	■	■	■
	LED indicator	Blue		
	Anti-mask	–	–	–
	Tamper	■	■	■
	Insect/dust immunity	■	■	■
Ease of installation	Two-piece design	■	■	■
	Self-locking enclosure	■	■	■
	Interchangeable mounting base	■	■	■
	Bubble level	■	■	■
	Removable lift-gate terminal strips	■	■	■
	Enable/disable LED	■	■	■
	Enable/disable pet immunity	–	■	■
	Enable/disable look-down	–	–	–
	Switchable detection patterns	–	–	–
	PIR sensitivity adjustment	Automatic		
	Microwave Doppler range adjustment	■	■	■
	Flexible mounting height	■	■	■
	Mounting location	Surface, semi-flush, corner		
	Installation accessories	B328 Gimbal-mount, B335 Swivel-mount, B338 Ceiling-mount		
	Remote walk test	■	■	■
	Remote self test	–	–	–
Certification	Approvals/listings	AFNOR, CCC, CE, EN50131–2–4 Grade 2, IC, INCERT, UL		

Commercial Series

Detection delivered. Reliability assured.

		TriTech (PIR + MW)	
		Standard	Anti-mask
		New	New
Description		**ISC–CDL1–W15x**	**ISC–CDL1–WA15x**
Overview	Application type	Small to Medium Commercial	
	Application risk level	Moderate risk	High risk
	Environment *	Difficult	
Specifications	Optics	Fresnel lens	
	Coverage/range	50 x 50 ft (15 x 15 m)	
	Mounting height	7.5 to 9 ft (2.3 to 2.75 m)	
	Operating temperature **	–20° to 130°F (–30° to 55°C)	
	Operating voltage	9 to 15 VDC	
	Current draw (typical)	10 mA	
	Current draw (maximum)	–	–
Features	First step processing	■	■
	Sensor Data Fusion	–	–
	Motion monitor	–	–
	Microwave noise adaptive processing	■	■
	Range adaptive radar	–	–
	Active white light suppression	–	–
	Dynamic temperature compensation	■	■
	Wall-to-wall coverage	■	■
	Tri-focus optics	–	–
	Look-down zone	■	■
	Pet/small animal immunity	10 lb (4.5 kg)	
	Alarm memory	–	–
	Alarm output	NC (Form B)	
	PIR supervision	■	■
	Microwave supervision	■	■
	LED indicator	Blue	
	Anti-mask	–	■
	Tamper	■	■
	Insect/dust immunity	■	■
Ease of installation	Two-piece design	■	■
	Self-locking enclosure	■	■
	Interchangeable mounting base	■	■
	Bubble level	■	■
	Removable lift-gate terminal strips	■	■
	Selectable PIR sensitivity	High (EN Grade 2), Low	High (EN Grade 3), Low (EN Grade 2)
	Pointable optics	–	–
	Interchangeable optics	–	–
	Enable/disable LED	■	■
	Enable/disable look-down	■	■
	Switchable detection patterns	–	–
	PIR sensitivity adjustment	Yes	
	Microwave Doppler range adjustment	■	■
	Flexible mounting height	■	■
	Mounting location	Surface, semi-flush, corner	
	Installation accessories	B328 Gimbal-mount, B335 Swivel-mount, B338 Ceiling-mount	
	Remote walk test	–	–
	Remote self test	–	–
Certification	Approvals/listings	AFNOR, CCC, CE, EN50131-2-4 Grade 3, FCC, IC, INCERT, UL, VdS	

* 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°F to 120°F (0°C to 49°C), indoor use

Professional Series
Intelligent Motion Detection

		PIR		TriTech® (PIR + MW)
		Standard	Anti-mask	Standard
Description		**ISC–PPR1–W16**	**ISC–PPR1–WA16x**	**ISC–PDL1–W18x**
Overview	Application type	Small to Large Commercial		
	Application risk level	Moderate risk	High risk	Moderate risk
	Environment *	Standard		Difficult
Specifications	Optics	86 Zone		
	Coverage/range	50 x 70 ft (16 x 21 m) 25 x 32 ft (8 x 10 m)		60 x 80 ft (18 x 25 m) 25 x 32 ft (8 x 10 m)
	Mounting height	7 to 10 ft (2.1 to 3.0 m)		
	Operating temperature **	–20° to 130°F (–30° to 55°C)		
	Operating voltage	9 to 15 VDC		
	Current draw (typical)	10 mA	18 mA	13 mA
	Current draw (maximum)	15 mA	26 mA	25 mA
Features	First step processing	–	–	–
	Sensor Data Fusion	■	■	■
	Microwave noise adaptive processing	–	–	■
	Range adaptive radar	–	–	■
	Active white light suppression	■	■	■
	Dynamic temperature compensation	■	■	■
	Wall-to-wall coverage	–	–	–
	Tri-focus optics	■	■	■
	Look-down zone	■	■	■
	Pet/small animal immunity	10 lb (4.5 kg)		
	Alarm memory	■	■	■
	Alarm output	■	■	■
	LED indicator	Blue		Blue, yellow, red
	Anti-mask	–	■	■ (MW only)
	Tamper	Cover, wall		
	Insect/dust immunity	■	■	■
Ease of installation	Two-piece design	■	■	■
	Self-locking enclosure	■	■	■
	Interchangeable mounting base	■	■	■
	Bubble level	■	■	■
	Removable lift-gate terminal strips	■	■	■
	Enable/disable LED	–	–	–
	Enable/disable pet immunity	–	–	–
	Enable/disable look-down	■	■	■
	Switchable coverage patterns	■	■	■
	PIR sensitivity adjustment	–	–	–
	Microwave Doppler range adjustment	–	–	■
	Flexible mounting height	■	■	■
	Mounting location	Surface, semi-flush, corner		
	Installation accessories	B328 Gimbal-mount, B335 Swivel-mount, B338 Ceiling-mount		
	Remote walk test	■	■	■
	Remote self test	■	■	■
Certification	Approvals/listings	AFNOR, CCC, CE, EN50131–2–2 Grade 2, FCC, IC, INCERT, UL	AFNOR, CE, EN50131–2–2 Grade 3, FCC, IC, INCERT, UL	AFNOR, CCC, CE, EN50131–2–4 Grade 2, FCC, IC, INCERT, UL

* 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°F to 120°F (0°C to 49°C), indoor use

		TriTech® (PIR + MW)		
		Anti-mask	**Curtain**	**Anti-mask Curtain**
Description		**ISC–PDL1–WA18x**	**ISC–PDL1–WC30x**	**ISC–PDL1–WAC30x**
Overview	Application type	Small to Large Commercial	Small to Large Commercial	Small to Large Commercial
	Application risk level	High risk	Moderate risk	High risk
	Environment *	Difficult	Difficult	Difficult
Specifications	Optics	86 Zone	Fresnel curtain	Fresnel Curtain
	Coverage/range	60 x 80 ft (18 x 25 m) 25 x 32 ft (8 x 10 m)	100 x 10 ft (30 x 3 m)	100 x 10 ft (30 x 3 m)
	Mounting height	7 to 10 ft (2.1 to 3.0 m)		
	Operating temperature **	–22° to 130°F (–30° to 55°C)		
	Operating voltage	9 to 15 VDC		
	Current draw (typical)	18 mA	18 mA	18 mA
	Current draw (maximum)	26 mA	26 mA	26 mA
Features	First step processing	–	–	–
	Sensor Data Fusion	■	■	■
	Microwave noise adaptive processing	■	■	■
	Range adaptive radar	■	■	■
	Active white light suppression	■	■	■
	Dynamic temperature compensation	■	■	■
	Wall-to-wall coverage	–	–	–
	Tri-focus optics	■	■	■
	Look-down zone	■	■	■
	Pet/small animal immunity	10 lb (4.5 kg)	–	10 lb (4.5 kg)
	Alarm memory	■	■	■
	Alarm output	■	■	■
	LED indicator	Blue, yellow, red		
	Anti-mask	■	–	■
	Tamper	Cover, wall		
	Insect/dust immunity	■	■	■
Ease of installation	Two-piece design	■	■	■
	Self-locking enclosure	■	■	■
	Interchangeable mounting base	■	■	■
	Bubble level	■	■	■
	Removable lift-gate terminal strips	■	■	■
	Enable/disable LED	–	–	–
	Enable/disable pet immunity	–	–	–
	Enable/disable look-down	■	■	■
	Switchable coverage patterns	■	–	■
	PIR sensitivity adjustment	–	–	–
	Microwave Doppler range adjustment	■	■	■
	Flexible mounting height	■	■	■
	Mounting location	Surface, semi-flush, corner		
	Installation accessories	B328 Gimbal-mount, B335 Swivel-mount, B338 Ceiling-mount		
	Remote walk test	■	■	■
	Remote self test	■	■	■
Certification	Approvals/listings	AFNOR, CE, EN50131–2–4 Grade 2, FCC, IC, INCERT, UL		AFNOR, CE, EN50131–2–4-Grade 3

Classic Line
Long Range

PIR
Long-range

Description		DS778	DS794Z
Overview	Application type	Large Commercial	
	Application risk level	Moderate risk	
	Environment *	Standard	
Specifications	Optics	Pointable mirror	Mirror
	Coverage/range	200 x 15 ft (61 x 4.5 m)	200 x 10 ft (61 x 3 m) 80 x 50 ft (24 x 16 m)
	Mounting height	6.5 to 8.5 ft (2 to 2.6 m)	7.5 to 15 ft (2.3 to 5 m)
	Operating temperature **	–40° to 122°F (–40° to 50°C)	
	Operating voltage	6 to 15 VDC	
	Current draw (typical)	–	–
	Current draw (maximum)	18 mA	
Features	First step processing	–	–
	Sensor Data Fusion	–	–
	Microwave noise adaptive processing	–	–
	Range adaptive radar	–	–
	Motion Analyzer II signal processing	■	■
	Motion monitor	–	■
	Active white light suppression	–	–
	Dynamic temperature compensation	–	–
	Wall-to-wall coverage	–	–
	Tri-focus optics	–	–
	Look-down zone	■	–
	Pet/small animal immunity	–	–
	Pattern masking	–	–
	Alarm memory	–	–
	Alarm output	NC/NO (Form C)	
	PIR supervision	–	■
	Microwave supervision	–	–
	LED indicator	Red	
	Anti-mask	–	–
	Tamper	Cover	
	Insect/dust immunity	■	–
Ease of installation	Two-piece design	–	–
	Self-locking enclosure	–	–
	Hinged mounting base	–	–
	Pointable optics	Horizontal ±10° Vertical ±2° to –18°	–
	Interchangeable optics	■	■
	Switchable coverage patterns	■	■
	Enable/disable Day/Night mode	–	–
	Enable/disable LED	–	■
	Enable/disable look-down	■	–
	Selectable AND/OR gate	–	–
	PIR sensitivity adjustment	■	■
	Microwave Doppler range adjustment	–	–
	Adjustable timed relay output	–	–
	Flexible mounting height	■	■
	Mounting location	Wall, corner	Surface, corner
	Installation accessories	B328 Gimbal-mount, B334 Swivel-mount B338 Ceiling-mount	B334 Swivel Mount included, OA120–2 Mirror
	Remote walk test	–	–
	Remote self test	–	–
Certification	Approvals/listings	UL, CE	

* 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°F to 120°F (0°C to 49°C), indoor use

		TriTech® (PIR + MW)	
		Long-range	**Outdoor**
Description		**DS720i**	**OD850**
Overview	Application type	Medium to Large Commercial	Residential to Large Commercial
	Application risk level	Moderate to high risk	Moderate risk
	Environment *	Difficult	Difficult
Specifications	Optics	Mirror	42 Zone Fresnel lens
	Coverage/range	300 x 15 ft (91 x 4.5 m) 90 x 70 ft (27 x 21 m)	50 x 50 ft (15 x 15 m)
	Mounting height	7.5 to 10 ft (2.3 to 3 m)	7 to 9 ft (2.1 to 2.7 m)
	Operating temperature **	–22° to 120°F (–30° to 50°C)	–20° to 130°F (–30° to 55°C)
	Operating voltage	9 to 15 VDC	10 to 15 VDC
	Current draw (typical)	32 mA	22 mA
	Current draw (maximum)	60 mA	62 mA
Features	First step processing	–	–
	Sensor Data Fusion	–	–
	Microwave noise adaptive processing	■	–
	Range adaptive radar	–	–
	Motion Analyzer II signal processing	■	■
	Motion monitor	■	–
	Active white light suppression	–	–
	Dynamic temperature compensation	■	■
	Wall-to-wall coverage	–	–
	Tri-focus optics	–	–
	Look-down zone	–	■
	Pet/small animal immunity	–	–
	Pattern masking	–	–
	Alarm memory	■	–
	Alarm output	NC/NO (Form C)	2x NC/NO (Form C)
	PIR supervision	■	–
	Microwave supervision	■	■
	LED indicator	Red, green, yellow	Red, green
	Anti-mask	■	–
	Tamper	Cover, wall	Cover
	Insect/dust immunity	–	■
Ease of installation	Two-piece design	–	–
	Self-locking enclosure	–	–
	Hinged mounting base	–	–
	Pointable optics	–	■
	Interchangeable optics	■	■
	Switchable coverage patterns	■	■
	Enable/disable Day/Night mode	–	■
	Enable/disable LED	■	■
	Enable/disable look-down	–	■
	Selectable AND/OR gate	–	■
	PIR sensitivity adjustment	■	■
	Microwave Doppler range adjustment	■	■
	Adjustable timed relay output	–	■
	Flexible mounting height	■	■
	Mounting location	Wall, ceiling, octagonal electrical box	Wall, ceiling
	Installation accessories	B334 Swivel Mount included, OA120–2 Mirror	B328 Gimbal-mount, B334 Swivel-mount, B338 Ceiling-mount
	Remote walk test	■	–
	Remote self test	–	■
Certification	Approvals/listings	UL	CE, UL

Classic Line
Ceiling Mount

PIR		
Curtain	**Wide angle**	**Low-profile Panoramic**

Description		ISN-CC1-100N	ISN-CC1-50W	DS936	DS937
Overview	Application type	Medium to Large Commercial	Small to Medium Commercial	Residential to Small Commercial	
	Application risk level	Low to moderate risk			
	Environment *	Standard			
Specifications	Optics	Mirror		Fresnel lens	
	Coverage/range	98 x 9 ft (30 x 2.8 m)	46 x 46 ft (14 x 14 m)	24 ft (7.5 m) x 360°	50 ft (14 m) x 360°
	Mounting height	8 to 16 ft (2.5 to 5 m)		7 to 12 ft (2.0 to 3.6 m)	8 to 12 ft (2.4 to 3.6 m)
	Operating temperature **	–4° to 122°F (–20° to 50°C)		–22° to 120°F (–30° to 50°C)	14° to 120°F (–10° to 49°C)
	Operating voltage	9 to 28 VDC		10 to 15 VDC	
	Current draw (typical)	–	–	–	–
	Current draw (maximum)	25 mA		20 mA	
Features	First step processing	–	–	–	–
	Sensor Data Fusion	–	–	–	–
	Microwave noise adaptive processing	–	–	–	–
	Range adaptive radar	–	–	–	–
	Motion Analyzer II signal processing	–	–	–	–
	Motion monitor	–	–	–	–
	Active white light suppression	–	–	–	–
	Dynamic temperature compensation	–	–	–	–
	Wall-to-wall coverage	–	–	–	–
	Tri-focus optics	–	–	–	–
	Look-down zone	–	–	–	–
	Pet/small animal immunity	–	–	–	–
	Pattern masking	–	–	■	■
	Alarm memory	–	–	–	–
	Alarm output	NC/NO (Form C)		NC (Form B)	
	PIR supervision	–	–	–	–
	Microwave supervision	–	–	–	–
	LED indicator	Red		Red, yellow	
	Anti-mask	–	–	–	–
	Tamper	Cover			
	Insect/dust immunity	–	–	■	■
Ease of installation	Two-piece design	–	–	–	–
	Self-locking enclosure	–	–	–	–
	Hinged mounting base	–	–	–	–
	Pointable optics	Vertical 33°	Vertical 30°	Rotational ±15°	
	Interchangeable optics	–	–	–	–
	Switchable coverage patterns	–	–	–	–
	Enable/disable LED	■	■	■	■
	Enable/disable look-down	–	–	–	–
	Selectable AND/OR gate	–	–	–	–
	PIR sensitivity adjustment	■	■	■	■
	Microwave Doppler range adjustment	–	–	–	–
	Adjustable timed relay output	–	–	–	–
	Flexible mounting height	■	■	■	■
	Mounting location	Ceiling		Ceiling: surface	
	Installation accessories	–	–	–	–
	Remote walk test	–	–	–	–
	Remote self test	–	–	–	–
Certification	Approvals/listings	UL		CCC, CE, UL	CE, UL

* 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°F to 120°F (0°C to 49°C), indoor use

		PIR	TriTech® (PIR + MW)	PIR	TriTech® (PIR + MW)
		Panoramic		High-Performance Panoramic	
Description		**DS938Z**	**DS9360**	**DS939**	**DS9370/DS9371**
Overview	Application type	Residential to Medium Commercial	Small to Large Commercial		
	Application risk level	Low to moderate risk	Moderate risk		
	Environment *	Standard	Difficult	Standard	Difficult
Specifications	Optics	Mirror		Triple 35 Zone Fresnel lens	
	Coverage/range	60 ft (18 m) x 360°		70 ft (21 m) x 360°	
	Mounting height	8 to 18 ft (2.5 to 6.0 m)		8 to 25 ft (3 to 7.6 m)	
	Operating temperature **	–40° to 122°F (–40° to 50°C)	–40° to 120°F (–40° to 50°C)	–40° to 122°F (–40° to 50°C)	–40° to 120°F (–40° to 50°C)
	Operating voltage	6 to 15 VDC	9 to 15 VDC	6 to 15 VDC	9 to 15 VDC
	Current draw (typical)	–	18 mA	12 mA	19 mA
	Current draw (maximum)	18 mA	75 mA	39 mA	
Features	First step processing	–	–	■	■
	Sensor Data Fusion	–	–	–	–
	Microwave noise adaptive processing	–	■	–	■
	Range adaptive radar	–	–	–	–
	Motion Analyzer II signal processing	■	■	–	–
	Motion monitor	■	■	–	–
	Active white light suppression	–	–	–	–
	Dynamic temperature compensation	–	–	■	■
	Wall-to-wall coverage	–	–	–	–
	Tri-focus optics	–	–	–	–
	Look-down zone	–	–	–	–
	Pet/small animal immunity	–	–	–	–
	Pattern masking	■	■	■	■
	Alarm memory	–	■	■	■
	Alarm output	NC/NO (Form C)			
	PIR supervision	■	–	■	–
	Microwave supervision	–	–	■	■
	LED indicator	Red	Red, yellow, green	Blue	Blue, yellow, red
	Anti-mask	–	–	–	–
	Tamper	Cover		Cover, surface	
	Insect/dust immunity	–	–	■	■
Ease of installation	Two-piece design	–	–	■	■
	Self-locking enclosure	–	–	–	■
	Hinged mounting base	–	–	–	■
	Pointable optics	–	–	–	–
	Interchangeable optics	■	■	–	–
	Switchable coverage patterns	■	■	–	–
	Enable/disable LED	■	■	■	■
	Enable/disable look-down	–	–	–	–
	Selectable AND/OR gate	–	–	–	–
	PIR sensitivity adjustment	■	■	■	■
	Microwave Doppler range adjustment	–	■	–	■
	Adjustable timed relay output	–	–	–	–
	Flexible mounting height	■	■	■	■
	Mounting location	Ceiling			
	Installation accessories	–	–	–	–
	Remote walk test	–	–	■	■
	Remote self test	–	–	–	■
Certification	Approvals/listings	AFNOR, CCC, CE, EN50131–2–2 Grade 2, UL	AFNOR, CE, EN50131–2–4 Grade 2, FCC, IC, UL	AFNOR, CCC, CE, EN50131–2–2 Grade 2, INCERT, UL	AFNOR, CCC, CE, EN50131–2–4 Grade 2, FCC, IC, INCERT, UL

		PIR
		Recessed
Description		**DS915**
Overview	Application type	Residential to Small Commercial
	Application risk level	Low to moderate risk
	Environment *	Standard
Specifications	Optics	Interchangable Fresnel lens
	Coverage/range	30 x 38 ft (9 x 11.5 m)
	Mounting height	3 to 8 ft (0.9 to 2.5 m)
	Operating temperature **	–20° to 130°F (–30° to 55°C)
	Operating voltage	10 to 15 VDC
	Current draw (typical)	–
	Current draw (maximum)	20 mA
Features	First step processing	■
	Sensor Data Fusion	–
	Microwave noise adaptive processing	–
	Range adaptive radar	–
	Motion Analyzer II signal processing	–
	Motion monitor	–
	Active white light suppression	–
	Dynamic temperature compensation	–
	Wall-to-wall coverage	–
	Tri-focus optics	–
	Look-down zone	–
	Pet/small animal immunity	–
	Pattern masking	–
	Alarm memory	–
	Alarm output	NC (Form B)
	PIR supervision	–
	Microwave supervision	–
	LED indicator	Red
	Anti-mask	■
	Tamper	–
	Insect/dust immunity	–
Ease of installation	Two-piece design	–
	Self-locking enclosure	–
	Hinged mounting base	–
	Pointable optics	Horizontal ±10° Vertical +2° to –14°
	Interchangeable optics	–
	Switchable coverage patterns	■
	Enable/disable Day/Night mode	–
	Enable/disable LED	■
	Enable/disable look-down	–
	Selectable AND/OR gate	–
	PIR sensitivity adjustment	–
	Microwave Doppler range adjustment	–
	Adjustable timed relay output	–
	Flexible mounting height	■
	Mounting location	Wall (flush mount)
	Installation accessories	–
	Remote walk test	–
	Remote self test	–
Certification	Approvals/listings	UL

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RADION wireless†

Superior Range and Reliability

	PIR		TriTech® (PIR + MW)
	Pet Friendly® Standard	Pet Friendly® Curtain	Pet Friendly® Standard

Description		RFPR-12	RFPR-C12	RFDL-11
Overview	Application type	Residential to Small Commercial		
	Application risk level	Low to moderate risk		
	Environment *	Standard		
Specifications	Frequency	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	7.2 to 9 ft (2.1 to 2.75 m)	7 to 8.5 ft (2.1 to 2.6 m)	6.5 to 8 ft (2.0 to 2.4 m)
	Operating temperature **	32° to 120°F (0° to 49°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		
Features	First step processing	■	■	■
	Sensor Data Fusion	–	–	–
	Motion analyzer II signal processing	■	■	■
	Microwave noise adaptive processing	–	–	■
	Range adaptive radar	–	–	–
	Active white light suppression	–	–	–
	Dynamic temperature compensation	■	■	■
	Wall-to-wall coverage	■	■	■
	Tri-focus optics	–	–	–
	Look-down zone	■	■	■
	Pet/small animal immunity	30 lb (13 kg)		100 lb (45 kg)
	Alarm memory	■	■	–
	Alarm output	■	■	■
	LED indicator	Blue		
	Anti-mask	–	–	–
	Tamper	Cover, tamper		
	Insect/dust immunity	■	■	■
Ease of installation	Two-piece design	■	■	■
	Self-locking enclosure	■	■	■
	Interchangeable mounting base	■	■	■
	Bubble level	■	■	■
	Removable lift-gate terminal strips	■	■	■
	No-adjust installation	■	■	–
	Enable/disable LED	–	–	■
	Enable/disable pet immunity	–	–	■
	Enable/disable look-down	■	■	–
	Switchable detection patterns	■	■	–
	PIR sensitivity adjustment	–	–	–
	Microwave Doppler range adjustment	–	–	■
	Flexible mounting height	■	■	■
	Mounting location	Surface, semi-flush, corner		
	Installation accessories	B328 Gimbal-mount, B335 Swivel-mount, B338 Ceiling-mount		
	Remote walk test	■	■	■
	Remote self test	■	■	–
Certification	Approvals/listings	CCC, CE, EN50131-2-2 Grade 2, FCC, IC, INCERT, UL		CCC, CE, EN50131-2-2 Grade 4, FCC, IC, INCERT, UL

† 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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		Glass break	Door/Window Contacts		Other	
		Acoustic	Surface Mount	Recessed Mount	Universal Transmitter	Smoke
Description		**RFGB**	**RFDW–SM**	**RFDW–RM**	**RFUN**	**RFSM**
Specifications	Frequency	433.42 MHz				
	Coverage/range	20 ft (6 m) x 360°	–	–	–	0.14 +/–0.04 bM/m
	Mounting height	–	–	–	–	–
	Mounting gap	–	< 0.5 in (12.7 mm)			–
	Operating temperature **	32° to 120°F (0° to 49°C)				
	Operating voltage	3 VDC	1.5 VDC			3 VDC
	Power source	One CR123A Lithium Battery	One AA Lithium Battery	One AA Lithium Battery	One CR123A Lithium Battery	Two CR123A Lithium Batteries
	Battery life	Up to 5 years				
Features	LED indicator	Red	–	–	–	Red
	Tamper	Cover, wall		Cover	Cover, wall	
Ease of installation	Mounting location	Wall, ceiling	Surface	Recessed	Surface	Ceiling, wall
Certification	Approvals/listings	CCC, CE, EN50131, FCC, IC, UL				CE, CSFM, FCC, IC, UL

		Portable				Other
		Keyfob		Panic Button		Bill Trap
Description		**RFKF–TB**	**RFKF–FB**	**RFPB–SB**	**RFPB–TB**	**RFBT**
Specifications	Frequency	433.42 MHz				
	Coverage/range	–	–	–	–	–
	Mounting height	–	–	–	–	–
	Mounting gap	–	–	–	–	–
	Operating temperature **	32° to 120°F (0° to 49°C)				
	Operating voltage	3 VDC				1.5 VDC
	Power source	Two Lithium CR2025 Batteries				One AA Lithium Battery
	Battery life	Up to 5 years				
Features	LED indicator	Red				–
	Tamper	–	–	–	–	Cover, wall
Ease of installation	Mounting location	–	–	–	–	Cash Drawer
Certification	Approvals/listings	CE, EN50131, FCC, IC, UL				

Specialty
Request-to-exit

	PIR			
	Standard		High-performance	

Description		DS150i	DS151i	DS160	DS161
Overview	Color	Light gray	Black	Light gray	Black
Specifications	Optics	Fresnel lens			
	Coverage/range	8 x 10 ft (2.4 x 3.0 m)			
	Mounting height (max.)	13 ft (4 m)			
	Operating temperature	–20° to 120°F (–29° to 49°C)			
	Operating voltage	12 VAC/VDC to 24 VAC/VDC		12 VAC/VDC to 30 VAC/VDC	
	Current draw (typical)	26 mA at 12 VDC		8 mA at 12 VDC	
	Current draw (maximum)	35 mA		39 mA	
Features	Door monitor with sounder	–	–	■	■
	Keycard reader input	–	–	■	■
	Sequential logic input	–	–	■	■
	Relay fall safe/fall secure	■	■	■	■
	Relay settable select	■	■	■	■
	Relay latch time adjustment	0.25 – 60 sec		0.5 – 64 sec	
	Pattern masking	■	■	■	■
	Alarm output	2 relays, NC/NO (Form C)			
	LED indicator	■	■	■	■
	Tamper switch	–	–	■	■
Ease of installation	Pointable optics	Vertical Adjustment			
	Switchable relay mode	■	■	■	■
	Switchable timer reset mode	■	■	■	■
	Adjustable sounder volume	–	–	■	■
	PIR sensitivity adjustment	■	■	■	■
	Enable/disable LED	–	–	■	■
	Flexible mounting height	■	■	■	■
	Mounting location	Wall, ceiling			
	Installation accessories	TP160 Trim Plate	TP161 Trim Plate	TP160 Trim PlateSounder Cover	TP161 Trim PlateSounder Cover
Certification	Approvals/listings	UL, CE			

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Specialty
Glass Break

	Acoustic				
	Standard				**Combo Magnetic Contact**

Description		DS1101i	DS1108i	DS1102i	DS1103i	DS1109i
Overview	Application type	Residential to Large Commercial				
	Application risk level	Low to Moderate Risk				
	Environment *	Standard				
Specifications	Coverage/range	25 ft (7.6 m) x 360°				10 ft (3 m) x 360°
	Operating temperature	–20° to 120°F (–29° to 49°C)				
	Operating voltage	6 to 15 VDC	9 to 15 VDC	6 to 15 VDC	9 to 15 VDC	6 to 15 VDC
	Current draw (typical)	23 mA	21 mA	23 mA	21 mA	
	Current draw (maximum)	■	■	■	■	■
Features	Sound Analysis Technology (SAT) processing	NC/NO (Form C)	NC (Form B)	NC/NO (Form C)	NC (Form B)	
	Alarm output	■	■	■	■	■
	LED indicator					
	Tamper	■	■	■	–	■
Ease of installation	Mounting location	Wall, ceiling			Wall, ceiling (Flush)	Door, window frame
	Installation accessories	DS1110i Glassbreak Tester				
Certification	Approvals/listings	CCC, CE, UL				

Specialty
Photoelectric Beam

Dual Beam

Short Range | **Medium Range**

Description		ISC–FPB1–W30DS	ISC–FPB1–W60DS	ISC–FPB1–W90DS
Overview	Type	Photobeam 3000		
	Application type	Residential to Large Commercial		
Specifications	Coverage/range indoor	200 ft (60 m)	400 ft (120 m)	600 ft (180 m)
	Coverage/range outdoor	100 ft (30 m)	200 ft (60 m)	300 ft (90 m)
	Response time	50 ms to 700 ms		
	Operating temperature *	–13° to 131°F (–25° to 55°C)		
	Operating voltage	10.5 VDC to 28 VDC		
	Current draw (typical)	6 mA (transmitter) 24 mA (receiver)	10 mA (transmitter) 24 mA (receiver)	15 mA (transmitter) 24 mA (receiver)
	Environmental rating	IP55		
Features	Pulsed Active IR			
	Multi-channel operation	–	–	–
	Beam Power Control (BPC)	–	–	–
	Dual modulated beam	–	–	–
	Environmental discrimination	–	–	–
	Alarm output	NC/NO (Form C)		
	Tamper output	NC (Form B)		
	EDC output	–	–	–
	LED indicator	–	–	–
	Draft/insect immunity	■	■	■
Ease of installation	Pointable optics	Horizontal ±90° Vertical ±5°		
	Selectable response time	■	■	■
	Test features	Voltage output (for alignment)		
	Mounting location	Surface, pole		

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Specialty
Photoelectric Beam

Quad Beam

Medium Range | **Long Range**

Description		ISC-FPB1-W60QS ISC-FPB1-W60QF	ISC-FPB1-W120QS ISC-FPB1-W120QF	ISC-FPB1-W200QS ISC-FPB1-W200QF
Overview	Type	Photobeam 5000		
	Application type	Residential to Large Commercial		
Specifications	Coverage/range indoor	393 ft (120 m)	787 ft (240 m)	1,181 ft (360 m)
	Coverage/range outdoor	196 ft (60 m)	393 ft (120 m)	656 ft (200 m)
	Response time	40 ms to 500 ms		
	Operating temperature *	–13° to 140°F (–25° to 60°C)		
	Operating voltage	10.5 VDC to 28 VDC		
	Current draw (typical)	90/120 mA (transmitter) 24 mA (receiver)	95/124 mA (transmitter) 24 mA (receiver)	100/128 mA (transmitter) 24 mA (receiver)
	Environmental rating	IP66		
Features	Pulsed Active IR	■	■	■
	Multi-channel operation	■ (QF models)		
	Beam Power Control (BPC)	■	■	■
	Dual modulated beam	■	■	■
	Environmental discrimination	■	■	■
	Alarm output	NC/NO (Form C)		
	Tamper output	NC (Form B)		
	EDC output	NC (Form B)		
	LED indicator	■	■	■
	Draft/insect immunity	■	■	■
Ease of installation	Pointable optics	Horizontal ±90° Vertical ±10°		
	Selectable response time	■	■	■
	Test features	Voltage output and LEDs (for alignment)		
	Mounting location	Surface, pole		

* QS — single channel
QF — four channel

Specialty
Seismic/Shock

	Seismic		Shock
	Standard	High-performance	Standard
			New

Description		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		Residential to Large Commercial
	Application risk level	High risk		
	Environment	Vault walls and doors, Safes, ATM's, Strong Rooms, Vending Machines	Vault walls and doors, Safes, ATM's, Strong Rooms, Vending Machines	Vault walls and doors, Safes, ATM's, Strong Rooms, Vending Machines
Specifications	Coverage/range	50 m^2	80 m^2	1.5–3.5 m radius
	Operating temperature	–40° to 158°F (–40° to 70°C)		14° to 131°F (–10° to 55°C)
	Operating voltage	8 to 16 VDC		9 to 15 VDC
	Current draw (typical)	3 mA		8.5 mA
	Current draw (maximum)	6 mA		12 mA
	Environmental rating	IP43		
Features	Anti-drilling shield	■	■	–
	Temperature supervision	■	■	–
	Voltage monitoring	■	■	–
	Automatic self test	■	■	–
	Local event memory	–	■	–
	Alarm output	NC (Form B) Solid State Relays		
	LED	–	–	Green, red
	Tamper	Cover, wall		Cover
Ease of installation	Intelligent installation mode	–	–	■
	Mounting and function test	■	■	■
	Sensitivity adjustment	■	■	■
	Mounting location	Steel, concrete		Any
	Installation accessories	ISN–GMX–D7 Anti-drill Foil ISN–GMX–B0 Floor Socket ISN–GMX–P0 Mounting Plate ISN–GMX–P3S Swivel Plate ISN–GMX–S1 Test Transmitter ISN–GMX–W0 Wall Mounting Kit	ISN–GMX–D7 Anti-drill Foil ISN–GMX–B0 Floor Socket ISN–GMX–P0 Mounting Plate ISN–GMX–S1 Test Transmitter ISN–GMX–W0 Wall Mounting Kit	–
	Software options	ISN–SMS–W7 SensTool PC Software		–
Certification	Approvals/listings	CCC, CE, NCP, VdS, UL		CCC, CE

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Accessories

Mounting and installation	
AE774	**Metal Enclosure** For use in areas where some physical abuse is expected.
B328	**Gimbal-mount Bracket** Mounts on a single-gang box and allows rotation of a detector. Wires are hidden inside.
B335	**Swivel-mount Bracket** Heavy-duty wall or ceiling bracket for mounting a detector to standard electrical single-gang switch or outlet box.
B338	**Ceiling-mount Bracket** Mounts detector to the ceiling. Do not use for pet applications.
MP1	**Metal Pole** 3 ft (1 m) straight metal poles for mounting photoelectric detectors. Shipped in packages of two.
MP2	**Metal Pole** 4 ft (1.2 m) straight metal poles for mounting photoelectric detectors. Shipped in packages of two.
MP3	**L-Curved Metal Pole** Curved metal poles for mounting photoelectric detectors to vertical surfaces. Shipped in packages of two.
PC1A	**Weather Enclosure** Protects photoelectric detectors when mounted outside. Shipped in packages of two.
PC3A	**Back-to-back Box** Allows back-to-back mounting of photoelectric detectors on a pole. Shipped individually.
TP160	**Trim Plate—Light Gray** For mounting the REX detector over a standard single-gang box.
TP161	**Trim Plate—Black** For mounting the REX detector over a standard single-gang box.
TR12	**TR12 Transformer** 12 VAC, 0.93 A.
ISN–GMX–D7	**Anti-drill Foil** Provides drill protection for ISN-SM seismic detectors.
ISN–GMX–B0	**Floor Socket** For floor mounting a seismic detector.
ISN–GMX–P0	**Mounting Plate** Mount seismic detectors to steel or concrete surface.
ISN–GMX–P3S	**Swivel Plate** For use with ISN-SM-50 seismic detectors. Monitors safes and strong rooms with exposed keyholes.
ISN–GMX–S1	**Test Transmitter** For installation under ISN-SM series seismic detectors.
ISN–GMX–W0	**Wall Mounting Kit** For surface or flush mounting a seismic detector to the wall.

Other	
DS1110i	**Glassbreak Tester** Used to test DS1101i, DS1102i, DS1103i, and DS1108i Glass Break Detectors. 9V alkaline battery included.
BH12T	**Photobeam Heater** Ceramic heater with atuomatic temperature control. Prevents frost accumulation on photoelectric beam detector covers.
ISN–SMS–W7	**SensTool PC Software** Programming software for seismic detectors.

Feature Index

Feature	Description
Active White Light Suppression	Processes both infrared and white light to eliminate false alarms caused by stray lights such as passing car headlights.
Adjustable Optics	Adjust the mirrors or lenses to optimize the coverage pattern.
Alarm Memory	If the system is armed, the Alarm Memory remembers if an alarm event occurred. When the system is disarmed the alarm LED latches (turns on) if the Alarm Memory stored an alarm event.
AND / OR Mode	The detectors can be configured to cause an alarm either when all four beams are blocked, or when either the upper or the lower beams are blocked. This detects smaller objects and eliminates the possibility of climbing over or crawling under the beams.
Cover Tamper	A normally-closed contact opens when the cover is removed and sends a signal to the control panel.
Day / Night Mode	Set the jumper or switch to specify whether or not the unit reports alarm situations only during the night. Setting the jumper or switch to ON suppresses the alarm and timed relays during daylight. If the LEDs are enabled, then LED indications continue.
Door Monitor With Sounder	The sounder activates if the door opens without motion detected. The sounder activates if the door is held open too long after detecting motion.
Draft / Insect Immunity	The sealed optical chamber prevents drafts and insects from affecting the detector.
Environmental Discrimination Circuitry	Monitors the gradual loss of a signal due to dust, fog, rain, snow, and so on. A normally-closed contact opens when signal loss reaches 99%.
EOL Resistors	Integrated jumper-selectable end-of-line resistors simply the wiring process and reduce installation time.
First Step Processing (FSP)	Allows virtually instant response to human targets without generating false alarms for other sources. FSP adjusts the detector's sensitivity based on signal amplitude, polarity, slope, and timing. This eliminates the need for the installer to select the sensitivity level. Each sensor (PIR and microwave) is processed individually, and the alarm relay does not activate unless both sensors agree there is an alarm.
Inhibit Wiring	An optional feature that compares an electrical signal synchronized with the light beam to the light beam. This minimizes false alarm events by eliminating other disturbances such as an external light sources or dust.
Interchangeable Optics	Alter the PIR pattern by changing the mirror or lens.
IP Rating	A rating system for different environmental conditions.
Keycard Reader Input	The relay outputs activate when a signal is received from a keycard reader.
LED Enable or Disable	Setting the alarm LED jumper or switch in the detector to ON allows the LED to display an alarm. Setting the jumper or switch to OFF disables the LED alarm display.
Linear Travel Distance Microwave	This microwave signal processor measures the linear travel distance of a target to make an alarm decision. It eliminates alarms for objects that move but do not travel, such as tree limbs and hanging signs.
Microwave Adaptive Processing	Adaptive processing uses pattern recognition circuitry to identify and ignore repetitive false alarm sources. It adjusts to background disturbances to reduce false alarms without sacrificing the ability to respond to an intruder.
Microwave Detection Sensitivity Adjustment	Adjust the microwave sensitivity for each application at installation.
Microwave Supervision	The detector periodically verifies that the microwave system operates correctly.
Motion Analyzer II Signal Processing	This PIR signal processor uses multiple thresholds and timing windows to analyze timing, amplitude, duration, and polarity of signals to make an alarm decision. Extreme levels of thermal and illumination disturbances caused by hot and cold drafts, sunlight, or lightning do not cause an alarm.
Motion Monitor	Motion monitor supervision timers verify that the detector's field of view is not blocked.
Multiple Channel Operation	The detectors can be configured for up to eight different channels. Multiple units can be used near one another without the possibility of receiver cross-talk. This is particularly useful when stacking multiple beam sets.
No Adjustment Installation	No adjustments are required to install the detector. Optional features might be available.
Noise Voltage Output	To eliminate false alarm sources, use the test pins provided to connect a voltmeter for testing background noise measurements.
Pattern Masking	Use the masking kit provided to customize the size of the coverage pattern.

Feature Index

Feature	Description
Pet Immunity	Does not detect pets and animals on the floor inside the coverage area.
PIR Detection Sensitivity Adjustment	Adjust the PIR sensitivity for each application at installation.
PIR Supervision	The detector periodically verifies that the PIR system operates correctly.
Relay Fail Safe / Fail Secure	During a power failure, the relay can be set to unlock the door or keep the door locked.
Relay Outputs	Electrical contacts activate when motion is detected.
Relay Settable Select	The relay activation time can be set to reset upon additional motion detection.
Remote Walk Test	Enable the Walk Test from the control panel or keypad.
Selectable Beam Interruption Time Control	Adjust the beam interruption time to best fit the application.
Sensor Data Fusion	Uses sophisticated software to constantly adjust and balance the sensitivity of multiple sensors, resulting in the most accurate alarm decision.
Sequential Logic Input (SLI)	Two motion detectors provide higher security for unauthorized entry. If the first motion detector senses movement towards the door, the second motion detector verifies the movement.
Spare Terminals	Use the extra terminals to connect EOL resistors, shield wires, and so on.
Temperature Compensation	The detector automatically monitors the ambient temperature and adjusts its signal processing to maintain its ability to identify human intruders at critical temperatures.
Tri-Focus Optics	Includes three lenses with 3 focal lengths: 86 detection zones, which combine to make 11 solid curtains of detection.
Trouble Output	A normally-closed contact opens when a trouble condition occurs and sends a signal to the control panel.
Two-Piece Design	The back of the detector is a mounting plate. The front of the detector contains all the electronics and lenses or mirrors under a protective cover.
User-Selectable Look-Down Zone	Detects intruders near the detector.
Wall Tamper	A normally-closed contact opens when the detector is removed from the wall and sends a signal to the control panel.

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Printed in United States | 6/15
BINBR_DETECT-REF_v20150612