Intrusion Detectors
Quick Guide

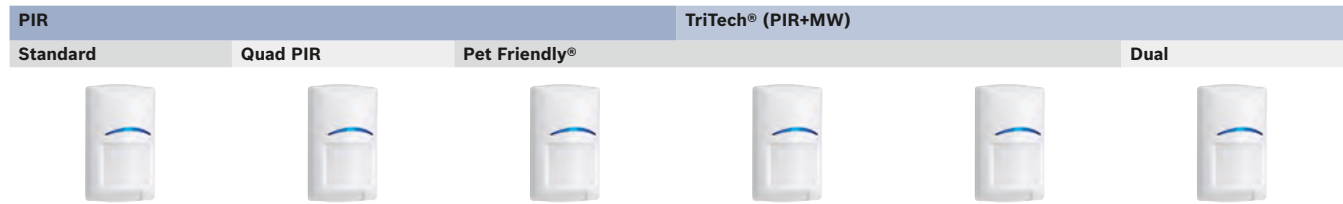June 2014

BOSCH
Invented for life

Intrusion Detectors
Blue Line Gen 2

		PIR			TriTech® (PIR+MW)		
		Standard	Quad PIR	Pet Friendly®			Dual
Commercial Type Number		**ISC–BPR2–W12**	**ISC–BPQ2–W12**	**ISC–BPR2–WP12**	**ISC–BDL2–WP6G**	**ISC–BDL2–WP12G**	**ISC–BDL2–W12G**
Overview	Catch performance	●●○○	●●●○	●●○○	●●○○	●●○○	●●○○
	False alarm immunity	●●○○	●●●○	●●○○	●●●●	●●●●	●●○○
	Application	Small to medium risk	Medium risk	Small to medium risk	Small to medium risk	Small to medium risk	Small to medium risk
	Environment *	Standard	Difficult	Standard	Difficult	Difficult	Difficult
Specifications	Optics	77 Zone Fresnel	77 Zone Fresnel	77 Zone Fresnel	77 Zone Fresnel	77 Zone Fresnel	77 Zone Fresnel
	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)	20 x 20 ft (6 x 6 m)	40 x 40 ft (12 x 12 m)	40 x 40 ft (12 x 12 m)
	Mounting height	7–9 ft (2.2–2.75 m)	7–9 ft (2.2–2.75 m)	7–9 ft (2.2–2.75 m)	7–9 ft (2.2–2.75 m)	7–9 ft (2.2–2.75 m)	7–9 ft (2.2–2.75 m)
	Operating temperature **	−20° to 130°F (−29° to 55°C)	−20° to 130°F (−29° to 55°C)	−20° to 130°F (−29° to 55°C)	−20° to 130°F (−29° to 55°C)	−20° to 130°F (−29° to 55°C)	−20° to 130°F (−29° to 55°C)
	Operating voltage	9–15 VDC	9–15 VDC	9–15 VDC	9–15 VDC	9–15 VDC	9–15 VDC
	Current draw (typical)	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA
Features	First stop 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)	100 lb (45 kg)	−
	Alarm output/memory	−/−	−/−	−/−	−/−	−/−	−/−
	Anti-mask	−	−	−	−	−	−
	Tamper	▪	▪	▪	▪	▪	▪
	Sealed optical chamber	▪	▪	▪	▪	▪	▪
Ease of installation ***	Enable/disable LED	▪	▪	▪	▪	▪	▪
	Enable/disable pet immunity	−	−	▪	▪	▪	−
	Enable/disable look-down	▪	▪	▪	−	−	−
	Microwave Range Adjustment	−	−	−	▪	▪	▪
	Remote walk test	−	−	−	−	−	−
	Remote self test	−	−	−	−	−	−

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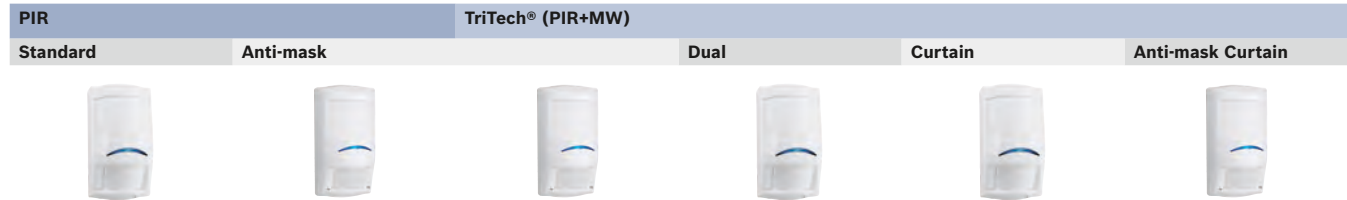
** For UL installations the operating range is 32° to 120°F (0° to 49°C), indoor use.

*** All models feature a two-piece design, self-locking enclosure, interchangeable mounting base, integrated bubble level, and removable lift-gate terminal strips.

▪ Available   − Not available

2

Intrusion Detectors
Professional Series

Commercial Type Number		PIR		TriTech® (PIR+MW)			
		Standard	Anti-mask		Dual	Curtain	Anti-mask Curtain
		ISC–PPR1–W16	ISC–PPR1–WA16G	ISC–PDL1–WA18G	ISC–PDL1–W18G	ISC–PDL1–WC30G	ISC–PDL1–WAC30G
Overview	Catch performance	●●●○	●●●●	●●●●	●●●○	●●●○	●●●○
	False alarm immunity	●●○○	●○○○	●●○○	●●●○	●●●○	●●●○
	Application	Medium to high risk	High risk	High risk	Medium to high risk	Medium to high risk	Medium to high risk
	Environment *	Standard	Standard	Difficult	Difficult	Difficult	Difficult
Specifications	Optics	86 Zone	86 Zone	86 Zone	86 Zone	14 Zone	14 Zone
	Coverage/range	50 x 70 ft (15 x 21 m) 25 x 32 ft (7 x 10 m)	50 x 70 ft (15 x 21 m) 25 x 32 ft (7 x 10 m)	60 x 80 ft (18 x 24 m) 25 x 32 ft (7 x 10 m)	60 x 80 ft (18 x 24 m) 25 x 32 ft (7 x 10 m)	100 x 10 ft (30 x 3 m)	100 x 10 ft (30 x 3 m)
	Mounting height	7–10 ft (2.2–3 m)	7–10 ft (2.2–3 m)	7–10 ft (2.2–3 m)	7–10 ft (2.2–3 m)	7–10 ft (2.2–3 m)	7–10 ft (2.2–3 m)
	Operating temperature **	−20° to 130°F (−29° to 55°C)	−20° to 130°F (−29° to 55°C)	−20° to 130°F (−29° to 55°C)	−20° to 130°F (−29° to 55°C)	−20° to 130°F (−29° to 55°C)	−20° to 130°F (−29° to 55°C)
	Operating voltage	9–15 VDC	9–15 VDC	9–15 VDC	9–15 VDC	9–15 VDC	9–15 VDC
	Current draw (typical)	10 mA	18 mA	18 mA	13 mA	18 mA	18 mA
Features	Sensor data fusion	■	■	■	■	■	■
	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)	10 lb (4.5 kg)	–	–
	Alarm output/memory	■/■	■/■	■/■	■/■	■/■	■/■
	Anti-mask	–	■	■	■ (MW only)	–	■
	Tamper	■	■	■	■	■	■
	Sealed optical chamber	■	■	■	■	■	■
Ease of installation ***	No-adjust installation	■	■	■	■	■	■
	Enable/disable look-down	■	■	■	■	■	■
	Switchable coverage patterns	■	■	■	■	–	–
	Microwave range adjustment	–	–	■	■	■	■
	Remote walk test	■	■	■	■	■	■
	Remote self test	■	■	■	■	■	■

* 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.
*** All models feature a two-piece design, self-locking enclosure, interchangeable mounting base, integrated bubble level, and removable lift-gate terminal strips.

■ Available   – Not available

Intrusion Detectors
RADION Wireless [†]

		PIR		TriTech® (PIR+MW)
		Standard	**Curtain**	**Dual**
Commercial Type Number		RFPR–12–A	RFPR–C12–A	RFDL–11–A
Overview	Catch performance	●●○○	●●○○	●●○○
	False alarm immunity	●●○○	●●○○	●●●○
	Application	Small to medium risk	Small to medium risk	Small to medium risk
	Environment *	Standard	Standard	Standard
Specifications	Frequency	433.42 MHz	433.42 MHz	433.42 MHz
	Coverage/range	39 x 39 ft (11.8 x 11.8 m)	39 x 5 ft (12 x 1.5 m)	35 x 35 ft (11 x 11 m)
	Mounting height	7.5–8.8 ft (2.3–2.7 m)	7.5–8.8 ft (2.3–2.7 m)	6.5–8 ft (2–2.4 m)
	Operating temperature **	32° to 120°F (0° to 49°C)	32° to 120°F (0° to 49°C)	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 Lithium Battery
	Battery life	Up to 5 years	Up to 5 years	Up to 5 years
Features	First step processing	∎	∎	∎
	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)
	Alarm output/memory	–/–	–/–	–/–
	Anti-mask	–	–	–
	Tamper	∎	∎	∎
	Sealed optical chamber	∎	∎	∎
Ease of installation ***	No-adjust installation	∎	∎	–
	Enable/disable LED	–	–	∎
	Enable/disable pet immunity	–	–	∎
	Enable/disable look-down	∎	∎	–
	Switchable detection patterns	–	–	–
	Microwave range adjustment	–	–	∎
	Remote walk test	–	–	–
	Remote self test	–	–	–

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

*** All models feature a two-piece design, self-locking enclosure, interchangeable mounting base, integrated bubble level, and removable lift-gate terminal strips.

† Wireless peripherals require B810 RADION receiver SD. Compatible with B Series (B5512, B4512, B3512) and G Series (D9412GV4, D7412GV4) control panels.

∎ Available   – Not available

Intrusion Detectors
RADION Wireless [†]

Door/window Contact			Other	Smoke Detector
Surface Mount	**Recessed Mount**		**Universal Transmitter**	**Photoelectric**

Commercial Type Number		**RFDW–SM–A**	**RFDW–RM–A**	**RFUN–A**	**RFSM–A**
Overview	Application	Small to medium risk	Small to medium risk	Small to medium risk	–
	Environment *	Standard	Standard	Standard	–
Specifications	Frequency	433.42 MHz	433.42 MHz	433.42 MHz	433.42 MHz
	Coverage/range	–	–	–	135° +/– 5°F (57.2° +/– 2.8°C)
	Reed switch gap width	< 0.75 in (19 mm)	< 0.75 in (19 mm)	< 0.75 in (19 mm)	–
	Operating temperature **	32° to 120°F (0° to 49°C)	32° to 120°F (0° to 49°C)	32° to 120°F (0° to 49°C)	32° to 120°F (0° to 49°C)
	Operating voltage	1.5 VDC	1.5 VDC	1.5 VDC	3 VDC
	Power source	One AA Lithium Battery	One AAA Lithium Battery	One CR123A Lithium Battery	Two CR123A Lithium Battery
	Battery life	Up to 5 years	Up to 5 years	Up to 5 years	Up to 5 years
Features	Tamper	■	■	■	■
	LED indicator	–	–	–	■

Other		Portable	
Glass Break	**Bill Trap**	**Keyfob**	**Panic Button**

Commercial Type Number		**RFGB–A**	**RFBT–A**	**RFKF–FB–A, RFKF–TB–A**	**RFPB–SB–A, RFPB–TB–A**
Overview	Application	Small to medium risk	Small to medium risk	Small to medium risk	Small to medium risk
	Environment *	Standard	Standard	Standard	Standard
Specifications	Frequency	433.42 MHz	433.42 MHz	433.42 MHz	433.42 MHz
	Coverage/range	20 ft (6 m) x 360°	–	–	–
	Mounting gap	–	–	–	–
	Operating temperature **	32° to 120°F (0° to 49°C)	32° to 120°F (0° to 49°C)	32° to 120°F (0° to 49°C)	32° to 120°F (0° to 49°C)
	Operating voltage	3 VDC	1.5 VDC	3 VDC	3 VDC
	Power source	One CR123A Lithium Battery	One AA Lithium Battery	One Lithium CR2032 Battery	One Lithium CR2032 Battery
	Battery life	Up to 5 years	Up to 5 years	Up to 5 years	Up to 5 years
Features	Tamper	■	■	–	–
	LED indicator	■	–	■	■

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** For UL installations the operating range is 32° to 120°F (0° to 49°C), indoor use.
† Wireless peripherals require B810 RADION receiver SD. Compatible with B Series (B5512, B4512, B3512) and G Series (D9412GV4, D7412GV4) control panels.

■ Available – Not available

Intrusion Detectors
Ceiling Mount

		PIR			TriTech® (PIR+MW)	
		Low-profile	Panoramic		High Performance	
Commercial Type Number		**DS936**	**DS938Z**	**DS939**	**DS9360**	**DS9370**
Overview	Catch performance	●●○○	●●●○	●●●○	●●●○	●●●●
	False alarm immunity	●●○○	●●●○	●●●○	●●●○	●●●○
	Application	Small to medium risk	Small to medium risk	Small to medium risk	Small to medium risk	Medium risk
	Environment *	Standard	Standard	Standard	Difficult	Difficult
Specifications	Optics	Fresnel	Mirror	Triple 35-zone fresnel	Mirror	Triple 35-zone fresnel
	Coverage/range	24 ft (7 m) x 360°	60 ft (18 m) x 360°	70 ft (21 m) x 360°	60 ft (18 m) x 360°	70 ft (21 m) x 360°
	Mounting height	7–12 ft (2–3.6 m)	8–18 ft (2.4–5.4 m)	8–25 ft (2.4–7.6 m)	8–18 ft (2.4–5.4 m)	8–25 ft (2.4–7.6 m)
	Operating temperature **	−22° to 120°F (−30° to 50°C)	−40° to 122°F (−40° to 50°C)	−40° to 122°F (−40° to 50°C)	−40° to 122°F (−40° to 50°C)	−40° to 122°F (−40° to 50°C)
	Operating voltage	10–15 VDC	6–15 VDC	9–15 VDC	6–15 VDC	9–15 VDC
	Current draw (typical)	–	–	12 mA	18 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 animal immunity	–	–	–	–	–
	Pattern masking	■	■	■	■	■
	Alarm output/memory	■/–	■/–	■/■	■/–	■/ ■
	Anti-mask	–	–	–	–	–
	Cover tamper	■	■	■	■	■
	Wall tamper	–	–	■	–	■
	Sealed optical chamber (insect/dust)	■	–	■	–	■
Ease of installation	Two-piece design	–	–	■	–	■
	Self-locking enclosure	–	–	■	–	■
	Hinged mounting base	–	–	■	–	■
	Pointable optics	Rotational +15°	Horizontal +10° Verical +2° to −18°	Horizontal +10° Verical +2° to −18°	Horizontal +10° Verical +2° to −18°	Horizontal +10° Verical +2° to −18°
	Interchangeable optics	–	■	–	■	–
	Switchable coverage patterns	–	■	–	■	–
	Enable/disable LED	■	■	■	■	■
	PIR sensitivity adjustment	■	■	■	■	■
	Microwave range adjustment	–	–	–	■	■
	Flexible mounting height	■	■	■	■	■
	Remote walk test	–	–	■	–	■
	Remote self test	–	–	–	–	■

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■ Available   − Not available

Intrusion Detectors
Request-to-Exit

	Standard		High Performance	
	Light Gray	Black	Light Gray	Black

Commercial Type Number		DS150i	DS151i	DS160	DS161
Overview	Application	Small to medium risk	Small to medium risk	Small to medium risk	Small to medium risk
	Environment *	Standard	Standard	Standard	Standard
Specifications	Optics	Fresnel	Fresnel	Fresnel	Fresnel
	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 (max.)	13 ft (4 m)	13 ft (4 m)	13 ft (4 m)	13 ft (4 m)
	Operating temperature **	−22° to 120°F (−30° to 50°C)	−40° to 122°F (−40° to 50°C)	−40° to 122°F (−40° to 50°C)	−40° to 122°F (−40° to 50°C)
	Operating voltage	12–24 VDC pr VAC	12–24 VDC pr VAC	12–24 VDC pr VAC	12–24 VDC pr VAC
	Current draw (typical)	26 mA @ 12 VDC	26 mA @ 12 VDC	8 mA @ 12 VDC	8 mA @ 12 VDC
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 seconds	0.25–60 seconds	0.5–64 seconds	0.5–64 seconds
	Pattern masking	■	■	■	■
	Alarm output/memory	–/■	–/■	–/■	–/■
	Tamper	–	–	■	■
Ease of installation	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	■	■	■	■

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■ Available   − Not available

A Tradition of Quality and Innovation

For over 125 years, the Bosch name stands for quality and reliability. Bosch is the global supplier of choice for innovative technology, backed by the highest standards for service and support.

Bosch Security Systems proudly offers a wide range of security, safety, communications and sound solutions that are relied upon every day in applications around the world, from government facilities and public venues to businesses, schools and homes.