

Intrusion Detectors

Quick Guide

June 2015



BOSCH

Invented for life



Security you can rely on

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 false alarms.

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.

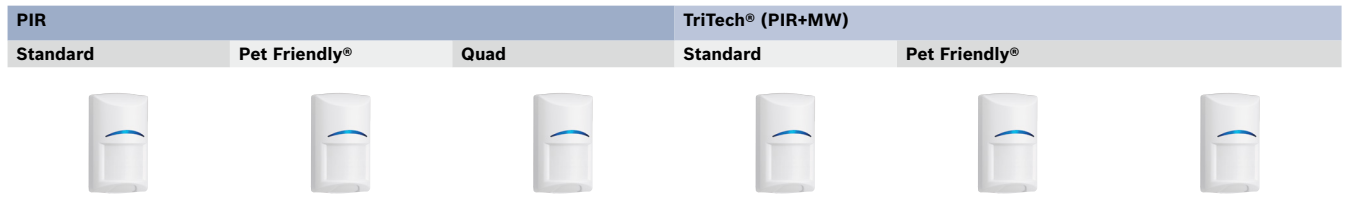
Ideal for any application

Intelligent intrusion detection is a delicate balance between responding to real security breachers and ignoring costly false alarm sources. 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 larger warehouses to long corridors and high ceilings. They stand up to multiple challenges, including strong drafts, moving objects and the presence of pets.

Residential and Small Commercial

Blue Line Gen 2 Series



Commercial Type Number		ISC-BPR2-W12	ISC-BPR2-WP12	ISC-BPQ2-W12	ISC-BDL2-W12x	ISC-BDL2-WP12x	ISC-BDL2-WP6x
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	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)	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 to 9 ft (2.2 to 2.75 m)	7 to 9 ft (2.2 to 2.75 m)	7 to 9 ft (2.2 to 2.75 m)	7 to 9 ft (2.2 to 2.75 m)	7 to 9 ft (2.2 to 2.75 m)	7 to 9 ft (2.2 to 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 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/memory	-/-	-/-	-/-	-/-	-/-	-/-
	Anti-mask	-	-	-	-	-	-
	Tamper	■	■	■	■	■	■
	Sealed optical chamber	■	■	■	■	■	■
Ease of 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	AFNOR, CCC, CE, EN50131-2-4 Grade 2, IC, INCERT, UL	AFNOR, CCC, CE, EN50131-2-4 Grade 2, IC, INCERT, UL	AFNOR, CCC, CE, EN50131-2-4 Grade 2, 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° 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

Small to Medium Commercial Commercial Series

TriTech® (PIR+MW)

Standard



New

Anti-mask



New

Commercial Type Number		ISC-CDL1-W15x	ISC-CDL1-WA15x
Overview	Application risk level	Moderate risk	High risk
	Environment *	Difficult	Difficult
Specifications	Optics	27 Zone	27 Zone
	Coverage/range	50 x 50 ft (15 x 15 m)	50 x 50 ft (15 x 15 m)
	Mounting height	7.5 to 9 ft (2.3 to 2.75 m)	7.5 to 9 ft (2.2 to 2.75 m)
	Operating temperature **	-20° to 130°F (-30° to 55°C)	-20° to 130°F (-29° to 55°C)
	Operating voltage	9-15 VDC	9-15 VDC
	Current draw (typical)	10 mA	10 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)
	Alarm output/memory	■/■	■/■
	Anti-mask	-	■
	Tamper	■	■
	Sealed optical chamber	■	■
Ease of installation ***	Enable/disable look-down	■	■
	Switchable coverage patterns	-	-
	Microwave Doppler range adjustment	■	■
	Remote walk test	-	-
	Remote self test	-	-
Certifications	AFNOR, CCC, CE, EN50131-2-4 Grade 2, FCC, IC, INCERT, UL, VdS		AFNOR, CCC, CE, EN50131-2-4 Grade 3, FCC, IC, INCERT, UL, VdS

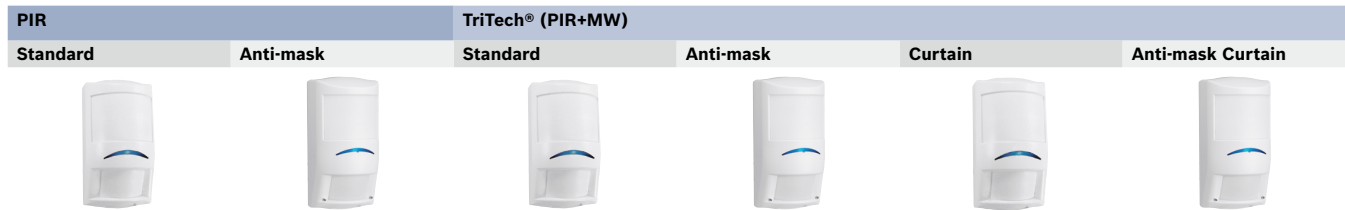
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** For UL installations the operating range is 32° to 120°F (0° to 49°C), indoor use.

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

■ Available - Not available

Large Commercial and High Security Professional Series



Commercial Type Number		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	Optics	86 Zone	86 Zone	86 Zone	86 Zone	Fresnel curtain	Fresnel curtain
	Coverage/range	50 x 70 ft (15 x 21 m)	50 x 70 ft (15 x 21 m)	60 x 80 ft (18 x 24 m)	60 x 80 ft (18 x 24 m)	100 x 10 ft (30 x 3 m)	100 x 10 ft (30 x 3 m)
		25 x 32 ft (7 x 10 m)	25 x 32 ft (7 x 10 m)	25 x 32 ft (7 x 10 m)	25 x 32 ft (7 x 10 m)		
		Mounting height	7 to 10 ft (2.2 to 3 m)	7 to 10 ft (2.2 to 3 m)	7 to 10 ft (2.2 to 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	13 mA	18 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)	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 Doppler range adjustment	-	-	■	■	■	■
	Remote walk test	■	■	■	■	■	■
	Remote self test	■	■	■	■	■	■
Certifications	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	AFNOR, CCC, CE, EN50131-2-4 Grade 2, FCC, IC, INCERT, UL	AFNOR, CE, EN50131-2-4 Grade 2, FCC, IC, INCERT, UL	AFNOR, CE, EN50131-2-4 Grade 2, FCC, IC, INCERT, UL	AFNOR, CE, EN50131-2-4-Grade 3

* 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

Premises Wireless[†]

RADION

PIR		TriTech® (PIR+MW)
Standard	Curtain	Standard



Commercial Type Number		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	Standard	
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 2.75 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)	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 Alkaline Batteries	
	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 Doppler range adjustment		-	-	■	
Remote walk test		-	-	-	
Remote self test	-	-	-		
Certificates	CCC, CE, EN50131-2-2 Grade 2, FCC, IC, INCERT, UL	CCC, CE, EN50131-2-2 Grade 2, FCC, IC, INCERT, UL	CCC, CE, EN50131-2-2 Grade 4, 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° 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 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.

■ Available - Not available

Premises Wireless[†]

RADION

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



Commercial Type Number		RFDW-SM	RFDW-RM	RFUN	RFSM
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	RFBT	RFKF-FB, RFKF-TB	RFPB-SB, RFPB-TB
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	■	-	■	■

* 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.

† Wireless peripherals require B810 RADION receiver SD. Compatible with B Series and G Series control panels.

■ Available - Not available

Ceiling Mount Classic Line

PIR	TriTech® (PIR+MW)	PIR	TriTech® (PIR+MW)
Panoramic		High Performance Panoramic	



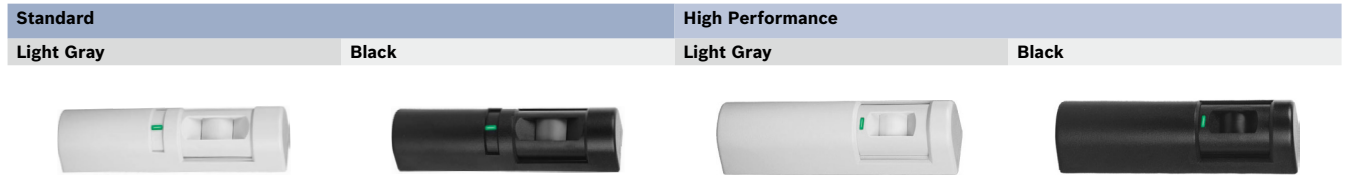
Commercial Type Number		DS936	DS938Z	DS9360	DS939	DS9370	
Overview	Application risk level	Low to moderate risk	Low to moderate risk	Moderate risk	Moderate risk	Moderate risk	
	Environment *	Standard	Standard	Difficult	Standard	Difficult	
Specifications	Optics	Fresnel	Mirror	Mirror	Triple 35-zone Fresnel	Triple 35-zone Fresnel	
	Coverage/range	24 ft (7 m) x 360°	60 ft (18 m) x 360°	60 ft (18 m) x 360°	70 ft (21 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)	8–18 ft (2.4–5.4 m)	8–25 ft (2.4–7.6 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	6–15 VDC	9–15 VDC	9–15 VDC	
	Current draw (typical)	–	–	18 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 animal immunity	–	–	–	–	–	
	Pattern masking	■	■	■	■	■	
	Alarm output/memory	■/–	■/–	■/–	■/■	■/■	
	Anti-mask	–	–	–	–	–	
	Cover tamper	■	■	■	■	■	
	Surface tamper	–	–	–	■	■	
	Sealed optical chamber (insect/dust)	■	–	–	■	■	
	Ease of installation	Two-piece design	–	–	–	■	■
		Self-locking enclosure	–	–	–	■	■
Hinged mounting base		–	–	–	■	■	
Interchangeable optics		–	■	■	–	–	
Switchable coverage patterns		–	■	■	–	–	
Enable/disable LED		■	■	■	■	■	
PIR sensitivity adjustment		■	■	■	■	■	
Microwave Doppler range adjustment		–	–	■	–	■	
Flexible mounting height		■	■	■	■	■	
Remote walk test		–	–	–	■	■	
Remote self test		–	–	–	–	■	
Certificates		CCC, CE, UL	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	

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

■ Available – Not available

Specialty Request-to-Exit



Commercial Type Number		DS150i	DS151i	DS160	DS161
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 **	-20° to 120°F (-29° to 49°C)	-20° to 120°F (-29° to 49°C)	-20° to 120°F (-29° to 49°C)	-20° to 120°F (-29° to 49°C)
	Operating voltage	12-24 VDC or VAC	12-24 VDC or VAC	12-30 VDC or VAC	12-30 VDC or 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	-	-	■	■
Certifications	Flexible mounting height	■	■	■	■
		UL, CE	UL, CE	UL, CE	UL, CE

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

■ Available - Not available

Specialty Photoelectric Beam



Description		Dual Beam			Quad Beam		
		Short Range	Medium Range	Medium Range	Medium Range	Long Range	Long Range
		ISC-FPB1-W30DS	ISC-FPB1-W60DS	ISC-FPB1-W90DS	ISC-FPB1-W60QS ISC-FPB1-W60QF	ISC-FPB1-W120QS ISC-FPB1-W120QF	ISC-FPB1-W200QS ISC-FPB1-W200QF
Overview	Type	Photobeam 3000	Photobeam 3000	Photobeam 3000	Photobeam 5000	Photobeam 5000	Photobeam 5000
	Application type	Residential to Large Commercial	Residential to Large Commercial	Residential to Large Commercial	Residential to Large Commercial	Residential to Large Commercial	Residential to Large Commercial
Specifications	Coverage/range indoor	200 ft (60 m)	400 ft (120 m)	600 ft (180 m)	393 ft (120 m)	787 ft (240 m)	1,181 ft (360 m)
	Coverage/range outdoor	100 ft (30 m)	200 ft (60 m)	300 ft (90 m)	196 ft (60 m)	393 ft (120 m)	656 ft (200 m)
	Response time	50 ms to 700 ms	50 ms to 700 ms	50 ms to 700 ms	40 ms to 500 ms	40 ms to 500 ms	40 ms to 500 ms
	Operating temperature *	-13° to 131°F (-25° to 55°C)	-13° to 131°F (-25° to 55°C)	-13° to 131°F (-25° to 55°C)	-13° to 140°F (-25° to 60°C)	-13° to 140°F (-25° to 60°C)	-13° to 140°F (-25° to 60°C)
	Operating voltage	10.5 VDC to 28 VDC	10.5 VDC to 28 VDC	10.5 VDC to 28 VDC	10.5 VDC to 28 VDC	10.5 VDC to 28 VDC	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)	90/120 mA (transmitter) 24 mA (receiver)	95/124 mA (transmitter) 24 mA (receiver)	100/128 mA (transmitter) 24 mA (receiver)
	Environmental rating	IP55	IP55	IP55	IP66	IP66	IP66
Features	Pulsed Active IR				■	■	■
	Multi-channel operation	–	–	–	■ (QF models)	■ (QF models)	■ (QF models)
	Beam Power Control (BPC)	–	–	–	■	■	■
	Dual modulated beam	–	–	–	■	■	■
	Environmental discrimination	–	–	–	■	■	■
	Alarm output	NC/NO (Form C)	NC/NO (Form C)	NC/NO (Form C)	NC/NO (Form C)	NC/NO (Form C)	NC/NO (Form C)
	Tamper output	NC (Form B)	NC (Form B)	NC (Form B)	NC (Form B)	NC (Form B)	NC (Form B)
	EDC output	–	–	–	NC (Form B)	NC (Form B)	NC (Form B)
	LED indicator	–	–	–	■	■	■
	Draft/insect immunity	■	■	■	■	■	■
	Ease of installation	Pointable optics	Horizontal ±90° Vertical ±5°	Horizontal ±90° Vertical ±5°	Horizontal ±90° Vertical ±5°	Horizontal ±90° Vertical ±10°	Horizontal ±90° Vertical ±10°
Selectable response time		■	■	■	■	■	■
Test features		Voltage output (for alignment)	Voltage output (for alignment)	Voltage output (for alignment)	Voltage output and LEDs (for alignment)	Voltage output and LEDs (for alignment)	Voltage output and LEDs (for alignment)
Mounting location		Surface, pole	Surface, pole	Surface, pole	Surface, pole	Surface, pole	Surface, pole

* QS – single channel
QF – four channel

Notes

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.



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