

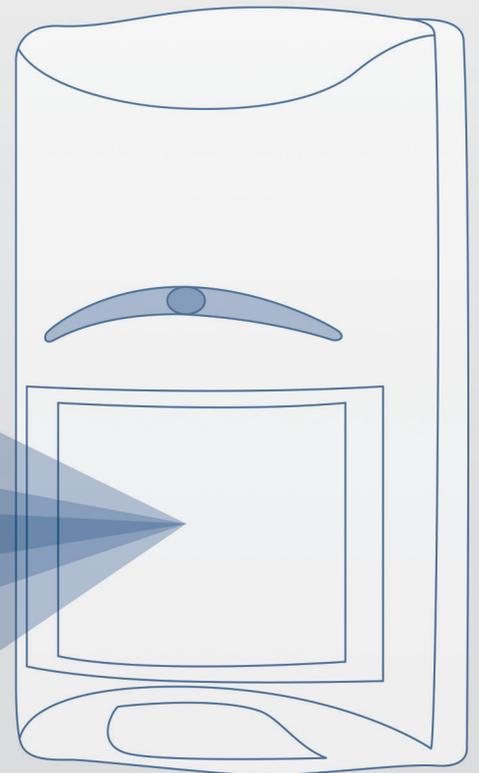


# Intrusion Detector

## Reference Guide



**BOSCH**  
Invented for life



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## Security you can rely on

Whether you are 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 have 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

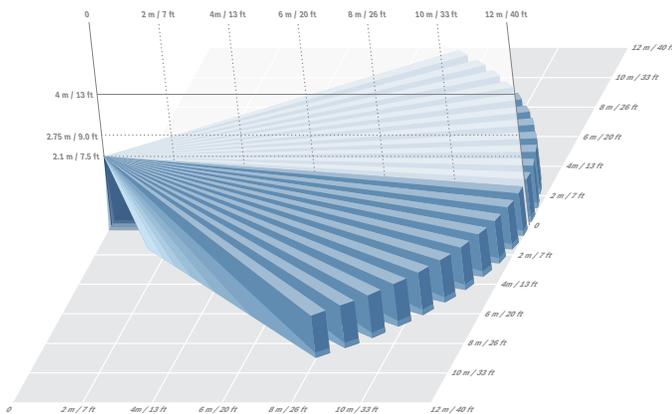
over the world. In the state-of-the-art Bosch laboratory, we verify that our detectors pass the most stringent requirements of each certification standard. Bosch also designs its own, even more demanding, tests to ensure the detectors are virtually immune to environmental disturbances. As a result, false 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 are 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 Doppler 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       | Coverage/range                      | 40 x 40 ft (12 x 12 m)                                   |               |                |
|                      | Mounting height                     | 7 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  |               |                |
| 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                        | NC   |               |                |
|                      | LED indicator                       | Blue   |               |                |
|                      | Anti-mask                           | —  | —             | —              |
|                      | Tamper                              | Cover  |               |                |
|                      | 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, 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           | Coverage/range  | 40 x 40 ft (12 x 12 m)          |                | 20 x 20 ft (6 x 6 m) |
|                          | Mounting height   | 7 to 9 ft (2.3 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                           |                |                      |
| 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  | NC                              |                |                      |
|                          | LED indicator   | Blue                            |                |                      |
|                          | Anti-mask   | —                               | —              | —                    |
|                          | Tamper  | Cover                           |                |                      |
|                          | 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, 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, FCC, IC, INCERT, UL |                                 |                |                      |

## Commercial Series

Detection delivered. Reliability assured.

### TriTech (PIR + MW)

Standard

Anti-mask



| Description                         |  | ISC-CDL1-W15x   | ISC-CDL1-WA15x  | ISC-CDL1-WA12x                      |
|-------------------------------------|--|---|---|-------------------------------------|
| Overview                            | Application type   | Small to Medium Commercial                                    |   |                                     |
|                                     | Application risk level                                   | Moderate risk   | High risk   |                                     |
|                                     | Environment *  | Difficult   |   |                                     |
| Specifications                      | Coverage/range   | 50 x 50 ft (15 x 15 m)  |   | 40 x 40 ft (12 x 12m)               |
|                                     | Mounting height  | 7.5 to 9 ft (2.3 to 2.75 m)                                   |   |                                     |
|                                     | Operating temperature **                                 | -22° to 130°F (-30° to 55°C)                                  |   |                                     |
|                                     | Operating voltage  | 9 to 15 VDC   |   |                                     |
|                                     | Current draw (typical)                                   | 10 mA   | 15mA  |                                     |
| 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  |   |                                     |
|                                     | PIR supervision  | ■   | ■   | ■                                   |
|                                     | Microwave supervision                                    | ■   | ■   | ■                                   |
|                                     | LED indicator  | Blue  |   |                                     |
|                                     | Anti-mask  | —   | ■   | ■                                   |
|                                     | Tamper   | Cover   | Cover + wall  | Cover + wall                        |
|                                     | 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, 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, FCC, IC, INCERT, UL, VdS | 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                      | Coverage/range                      | 50 x 70 ft (16 x 21 m)<br>25 x 33 ft (8 x 10 m)                |   | 60 x 80 ft (18 x 25 m)<br>25 x 33 ft (8 x 10 m)                |
|                                     | Mounting height                     | 7 to 10 ft (2.1 to 3.0 m)                                      |   |  |
|                                     | Operating temperature **            | -20° to 130°F<br>(-29° to 55°C)                                | -22° to 130°F<br>(-30° to 55°C)                           | -20° to 130°F<br>(-29° to 55°C)                                |
|                                     | Operating voltage                   | 9 to 15 VDC  |   |  |
|                                     | Current draw (typical)              | 10 mA  | 18 mA   | 13 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                        |                                     | NC   |   |  |
| 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, corner  |   |  |
|                                     | Installation accessories            | B328 Gimbal-mount, B335 Swivel-mount, B338 Ceiling-mount       |   |  |
| Remote walk test                    | ■                                   | ■  | ■   |  |
| Remote self test                    | ■                                   | ■  | ■   |  |
| Certification                       | Approvals/listings                  | AFNOR, CCC, CE,<br>EN50131-2-2 Grade 2,<br>FCC, IC, INCERT, UL | AFNOR, CE,<br>EN50131-2-2 Grade 3,<br>FCC, IC, INCERT, UL | AFNOR, CCC, CE,<br>EN50131-2-4 Grade 2,<br>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                                |   |                                |
|                                     | Application risk level              | High risk  | Moderate risk                                       | High risk                      |
|                                     | Environment *                       | Difficult  |   |                                |
| Specifications                      | Coverage/range                      | 60 x 80 ft (18 x 25 m)<br>25 x 33 ft (8 x 10 m)          | 100 x 8.5 ft (30 x 2.6 m)<br>25 x 3.3 ft (8 x 1 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  |   |                                |
| 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                        | NC   |   |                                |
|                                     | 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, 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 | 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                       | Coverage/range                     | 200 x 15 ft (61 x 4.5 m)                                   | 200 x 10 ft (61 x 3 m)<br>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  |  |   |
| 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<br>B338 Ceiling-mount | B334 Swivel Mount included,<br>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  |  |   |
| Specifications                       | Coverage/range                     | 300 x 15 ft (91 x 4.5 m)<br>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  | 2x NC/NO   |   |
| 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,<br>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

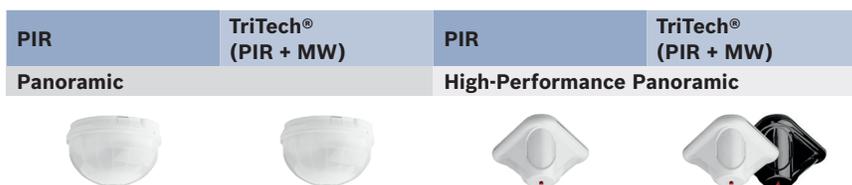
### Ceiling Mount



|                                    |                                      | 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        |                            |                                 |                             |   |
| Specifications                     | Environment *                        | Standard                    |                            |                                 |                             |   |
|                                    | Coverage/range                       | 98 x 9 ft (30 x 2.8 m)      | 46 ft (14 m) diameter      | 24 ft (7 m) diameter            | 50 ft (14 m) diameter       |   |
|                                    | Mounting height                      | 8 to 16 ft (2.5 to 5 m)     |                            | 7 to 12 ft (2.1 to 3.6 m)       | 8 to 12 ft (2.4 to 3.6 m)   |   |
|                                    | Operating temperature **             | -4° to 122°F (-20° to 50°C) |                            | -20° to 120°F (-29° to 49°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                       |                            | NC                              |                             |   |
|                                    | 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



| 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                       | Coverage/range                     | 60 ft (18 m) diameter                   |   | 70 ft (21 m) diameter                           |  |   |
|                                      | Mounting height                    | 8–18 ft (2.4–5.5 m)                     |   | 8–25 ft (2.4–7.6 m)                             |  |   |
|                                      | Operating temperature **           | -20° to 120°F (-29° to 49°C)            |   | -40° to 120°F (-40° to 49°C)                    |  |   |
|                                      | Operating voltage                  | 6 to 15 VDC                             |   | 9 to 15 VDC                                     |  |   |
|                                      | Current draw (typical)             | 18 mA                                   |   | 12 mA   | 19 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                                   |   |   |  |   |
| PIR supervision                      |                                    | ■                                       | —   | ■   | —  |   |
| Microwave supervision                |                                    | —                                       | —   | ■   | ■  |   |
| LED indicator                        |                                    | Red                                     | Red, yellow, green                          | Blue  | Blue, yellow, red  |   |
| Anti-mask                            |                                    | —                                       | —   | —   | —  |   |
| Tamper                               |                                    | Cover                                   |   | Cover + wall                                    |  |   |
| 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                       | 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                                   |   |
| 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                                   |   |

\* 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



# RADION wireless<sup>†</sup>

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   |                            | Difficult                  |   |
| 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 **   | 14° to 120°F (-10° to 49°C)                              |                            |                            |   |
|                                      | Operating voltage  | 3 VDC  |                            | 6 VDC                      |   |
|                                      | Power source   | 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 + wall   |                            |                            |   |
| 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 AFNOR, ANATEL,CCC, CE, EN50131 Grade 2, FCC, IC, INCERT, RCM,UL |  |                            |                            |   |

<sup>†</sup> 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.

\* 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

| 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) diameter                               | —                       | —                       | —                          | 0.14 +/-0.04 bM/m                  |
|                      | Mounting height          | —  | —                       | —                       | —                          | —                                  |
|                      | Mounting gap             | —  | < 0.5 in (12.7 mm)      |                         |                            | —                                  |
|                      | Operating temperature ** | 14° to 120°F (-10° to 49°C)                        |                         |                         |                            |                                    |
|                      | Operating voltage        | 3 VDC  |                         | 1.5 VDC                 |                            | 3 VDC                              |
|                      | Power source             | One CR123A Lithium Battery                         | One AAA Lithium Battery | One AAA 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       | ANATEL, CCC, CE, EN50131, FCC, IC, INCERT, RCM, UL |                         |                         |                            | ANATEL, CE, CSFM, FCC, IC, RCM, UL |

| Portable | Panic Button |  |  | Other     |
|----------|--------------|--|--|-----------|
| Keyfob   |              |  |  | Bill Trap |



| Description          |                          | RFKF-TB<br>RFKF-TBS                                | RFKF-FB<br>RFKF-FBS | RFPB-SB | RFPB-TB | RFBT                    |
|----------------------|--------------------------|--|---------------------|---------|---------|-------------------------|
| Specifications       | Frequency                | 433.42 MHz   |                     |         |         |                         |
|                      | Coverage/range           | —  | —                   | —       | —       | —                       |
|                      | Mounting height          | —  | —                   | —       | —       | —                       |
|                      | Mounting gap             | —  | —                   | —       | —       | —                       |
|                      | Operating temperature ** | 14° to 120°F (-10° to 49°C)                        |                     |         |         |                         |
|                      | Operating voltage        | 3 VDC  |                     |         |         | 1.5 VDC                 |
|                      | Power source             | One Lithium CR2032 Battery                         |                     |         |         | One AAA Lithium Battery |
|                      | Battery life             | Up to 5 years                                      |                     |         |         |                         |
| Features             | LED indicator            | Red  |                     |         |         | ■                       |
|                      | Tamper                   | —  | —                   | —       | —       | Cover, wall             |
|                      | Synchronized Encryption  | ■(FBS, TBS models)                                 |                     | —       | —       | —                       |
| Ease of installation | Mounting location        | —  | —                   | —       | —       | Cash Drawer             |
| Certification        | Approvals/listings       | ANATEL, CCC, CE, EN50131, FCC, IC, INCERT, RCM, UL |                     |         |         |                         |

## Premises Wireless (ZigBee)

### RADION ZB

|                 |                          |
|-----------------|--------------------------|
| <b>PIR</b>      | <b>TriTech® (PIR+MW)</b> |
| <b>Standard</b> | <b>Standard</b>          |



| Commercial Type Number   |                                     | RFPR-ZB                     | RFDL-ZB        |
|--------------------------|-------------------------------------|-----------------------------|----------------|
| Overview                 | Application risk level              | Low to moderate risk        |                |
|                          | Environment *                       | Standard                    | Difficult      |
| Specifications           | Frequency                           | 2.4 GHz                     |                |
| Features                 | Coverage/range                      | 40 x 40 ft (12 x 12 m)      |                |
|                          | Mounting height                     | 7.5 to 9 ft (2.3 to 2.7 m)  |                |
|                          | Operating temperature **            | 14° to 131°F (-10° to 55°C) |                |
|                          | Operating voltage                   | 3 VDC                       |                |
|                          | Power source ***                    | One CR123A Lithium Battery  |                |
|                          | Battery life ***                    | Up to 6 years               | Up to 3 years  |
|                          | 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                |                |
|                          | Sealed optical chamber              | ■                           | ■              |
| Ease of installation**** | No-adjust installation              | ■                           | ■              |
|                          | Enable/disable LED                  | ■                           | ■              |
|                          | Enable/disable pet immunity         | ■                           | ■              |
|                          | Enable/disable look-down            | ■                           | ■              |
|                          | Microwave Doppler range adjustment  | -                           | ■              |
| Certificates             | FCC, IC, cETLus, ZigBee, iControl   |                             |                |

\* 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.

\*\*\* Power source has capacity for an additional battery increasing the battery life from 6 to 10 years (RFPR-ZB) or from 3 to 6 years (RFDL-ZB).

\*\*\*\* All models feature a two-piece design, self-locking enclosure, interchangeable mounting base and integrated bubble level.



**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             | 7–10 ft (2.1–3 m)            |                                   | 7.5–15 ft (2.3–4.6 m)             |       |
|                             | Operating temperature       | –20° to 120°F (–29° to 49°C) |                                   |                                   |       |
|                             | Operating voltage           | 12 VAC or VDC; 24 VAC or VDC |                                   | 12 VAC or VDC; 30 VAC or VDC      |       |
|                             | Current draw (typical)      | 26 mA nominal                |                                   | 8 mA nominal                      |       |
| 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              |                                   |                                   |       |
|                             | 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 Plate<br>Sounder Cover | TP161 Trim Plate<br>Sounder Cover |       |
| 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

**Specialty**  
Glass Break

|                                       |
|---------------------------------------|
| <b>Acoustic</b>                       |
| <b>Standard</b>                       |
| <b>Combo<br/>Magnetic<br/>Contact</b> |



| 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) diameter          |             |             |                       | 10 ft (3 m) diameter |
|                      | 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                 |                      |
| Features             | Sound Analysis Technology (SAT) processing | NC/NO                           | NC          | NC/NO       | NC                    |                      |
|                      | 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)<br>24 mA (receiver) | 10 mA (transmitter)<br>24 mA (receiver) | 15 mA (transmitter)<br>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                                  |   |   |
|                      | Tamper output                | NC                                     |   |   |
|                      | 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                          |   |   |

\* 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

## Specialty

### Photoelectric Beam



| Description          |                              | Quad Beam                                   |   |  |
|----------------------|------------------------------|---|---|--|
|                      |                              | Medium Range                                | Long Range                                  |  |
|                      |                              | ISC-FPB1-W60QS<br>ISC-FPB1-W60QF            | ISC-FPB1-W120QS<br>ISC-FPB1-W120QF          | ISC-FPB1-W200QS<br>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)<br>24 mA (receiver) | 95/124 mA (transmitter)<br>24 mA (receiver) | 100/128 mA (transmitter)<br>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                                       |   |  |
|                      | Tamper output                | NC  |   |  |
|                      | EDC output                   | NC  |   |  |
|                      | 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, 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                  | 50 m <sup>2</sup>   | 80 m <sup>2</sup>  | 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   |
|                      | Environmental rating            | IP43  |  |  |
| Features             | Anti-drilling shield            | ■   | ■  | –  |
|                      | Temperature supervision         | ■   | ■  | –  |
|                      | Voltage monitoring              | ■   | ■  | –  |
|                      | Automatic self test             | ■   | ■  | –  |
|                      | Local event memory              | –   | ■  | –  |
|                      | Alarm output                    | NC 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<br>Anti-drill Foil<br>ISN-GMX-B0<br>Floor Socket<br>ISN-GMX-P0<br>Mounting Plate<br>ISN-GMX-P3S<br>Swivel Plate<br>ISN-GMX-S1<br>Test Transmitter<br>ISN-GMX-W0<br>Wall Mounting Kit | ISN-GMX-D7<br>Anti-drill Foil<br>ISN-GMX-B0<br>Floor Socket<br>ISN-GMX-P0<br>Mounting Plate<br>ISN-GMX-S1<br>Test Transmitter<br>ISN-GMX-W0<br>Wall Mounting Kit | –  |
| Software options     | ISN-SMS-W7 SensTool PC Software |   | –  |  |
| Certification        | Approvals/listings              | CCC, CE, NCP, VdS, UL   |  | CCC, 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

## Accessories

| Mounting and installation |  |
|---------------------------|--|
| <b>AE774</b>              | <b>Metal Enclosure</b><br>For use in areas where some physical abuse is expected.  |
| <b>B328</b>               | <b>Gimbal-mount Bracket</b><br>Mounts on a single-gang box and allows rotation of a detector. Wires are hidden inside.                             |
| <b>B335</b>               | <b>Swivel-mount Bracket</b><br>Heavy-duty wall or ceiling bracket for mounting a detector to standard electrical single-gang switch or outlet box. |
| <b>B338</b>               | <b>Ceiling-mount Bracket</b><br>Mounts detector to the ceiling. Do not use for pet applications.   |
| <b>MP1</b>                | <b>Metal Pole</b><br>3 ft (1 m) straight metal poles for mounting photoelectric detectors. Shipped in packages of two.                             |
| <b>MP2</b>                | <b>Metal Pole</b><br>4 ft (1.2 m) straight metal poles for mounting photoelectric detectors. Shipped in packages of two.                           |
| <b>MP3</b>                | <b>L-Curved Metal Pole</b><br>Curved metal poles for mounting photoelectric detectors to vertical surfaces. Shipped in packages of two.            |
| <b>PC1A</b>               | <b>Weather Enclosure</b><br>Protects photoelectric detectors when mounted outside. Shipped in packages of two.                                     |
| <b>PC3A</b>               | <b>Back-to-back Box</b><br>Allows back-to-back mounting of photoelectric detectors on a pole. Shipped individually.                                |
| <b>TP160</b>              | <b>Trim Plate—Light Gray</b><br>For mounting the REX detector over a standard single-gang box.   |
| <b>TP161</b>              | <b>Trim Plate—Black</b><br>For mounting the REX detector over a standard single-gang box.  |
| <b>TR12</b>               | <b>TR12 Transformer</b><br>12 VAC, 0.93 A.   |
| <b>ISN-GMX-D7</b>         | <b>Anti-drill Foil</b><br>Provides drill protection for ISN-SM seismic detectors.  |
| <b>ISN-GMX-B0</b>         | <b>Floor Socket</b><br>For floor mounting a seismic detector.  |
| <b>ISN-GMX-P0</b>         | <b>Mounting Plate</b><br>Mount seismic detectors to steel or concrete surface.   |
| <b>ISN-GMX-P3S</b>        | <b>Swivel Plate</b><br>For use with ISN-SM-50 seismic detectors. Monitors safes and strong rooms with exposed keyholes.                            |
| <b>ISN-GMX-S1</b>         | <b>Test Transmitter</b><br>For installation under ISN-SM series seismic detectors.   |
| <b>ISN-GMX-W0</b>         | <b>Wall Mounting Kit</b><br>For surface or flush mounting a seismic detector to the wall.  |
| Other                     |  |
| <b>DS1110i</b>            | <b>Glassbreak Tester</b><br>Used to test DS1101i, DS1102i, DS1103i, and DS1108i Glass Break Detectors. 9V alkaline battery included.               |
| <b>BH12T</b>              | <b>Photobeam Heater</b><br>Ceramic heater with automatic temperature control. Prevents frost accumulation on photoelectric beam detector covers.   |
| <b>ISN-SMS-W7</b>         | <b>SensTool PC Software</b><br>Programming software for seismic detectors.   |

# Feature Index

| Feature   | Description  |
|---|--|
| <b>Active White Light Suppression</b>             | Processes both infrared and white light to eliminate false alarms caused by stray lights such as passing car headlights.   |
| <b>Adjustable Optics</b>                          | Adjust the mirrors or lenses to optimize the coverage pattern.   |
| <b>Alarm Memory</b>                               | If the system is turned on, the Alarm Memory remembers if an alarm event occurred. When the system is turned off, the alarm LED latches (turns on), if the Alarm Memory stored an alarm event.   |
| <b>AND / OR Mode</b>                              | 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.   |
| <b>Cover Tamper</b>                               | A normally-closed contact opens when the cover is removed and sends a signal to the control panel.   |
| <b>Day / Night Mode</b>                           | 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.  |
| <b>Door Monitor With Sounder</b>                  | The sounder activates if the door opens without motion detected. The sounder activates if the door is held open too long after detecting motion.   |
| <b>Draft / Insect Immunity</b>                    | The sealed optical chamber prevents drafts and insects from affecting the detector.  |
| <b>Environmental Discrimination Circuitry</b>     | 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%.   |
| <b>EOL Resistors</b>                              | Integrated jumper-selectable end-of-line resistors simplify the wiring process and reduce installation time.   |
| <b>First Step Processing (FSP)</b>                | Allows virtually instant response to human intruders 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. |
| <b>Inhibit Wiring</b>                             | 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.  |
| <b>Interchangeable Optics</b>                     | Alter the PIR pattern by changing the mirror or lens.  |
| <b>IP Rating</b>                                  | A rating system for different environmental conditions.  |
| <b>Keycard Reader Input</b>                       | The relay outputs activate when a signal is received from a keycard reader.  |
| <b>LED Enable or Disable</b>                      | 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.   |
| <b>Linear Travel Distance Microwave</b>           | 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.   |
| <b>Microwave Adaptive Processing</b>              | 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.  |
| <b>Microwave Detection Sensitivity Adjustment</b> | Adjust the microwave sensitivity for each application at installation.   |
| <b>Microwave Supervision</b>                      | The detector periodically verifies that the microwave system operates correctly.   |
| <b>Motion Analyzer II Signal Processing</b>       | 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.  |
| <b>Motion Monitor</b>                             | Motion monitor supervision timers verify that the detector's field of view is not blocked.   |
| <b>Multiple Channel Operation</b>                 | 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.  |
| <b>No Adjustment Installation</b>                 | No adjustments are required to install the detector. Optional features might be available.   |
| <b>Noise Voltage Output</b>                       | To eliminate false alarm sources, use the test pins provided to connect a voltmeter for testing background noise measurements.   |
| <b>Pattern Masking</b>                            | Use the masking kit provided to customize the size of the coverage pattern.  |

# Feature Index

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





### **A Tradition of Quality and Innovation**

For 125 years, the Bosch name has stood 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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