

TAKEX

SECURITY & CONTROL

PRODUCT CATALOG

Ver. **4**

PHOTOELECTRIC BEAM SENSORS

QUAD BEAMS	03-04
ANTI-CRAWL BEAMS	04
BATTERY BEAM	05
TOWER BEAMS	05-06
TWIN BEAMS	07
LOW-CURRENT BEAMS	08
SOLAR PANEL KIT	08
INTRINSICALLY SAFE BEAMS	09
LONG RANGE BEAMS	09
FLUSH MOUNT BEAM	09
REFLECTIVE BEAMS	10-11
MINIATURE BEAMS	11-13
BEAM ACCESSORIES	13

MICROWAVE SENSORS

MICROWAVES	14
COMBINATIONS	14-15
MICROWAVE SENSOR ACCESSORIES	15

PASSIVE INFRARED SENSORS

DUAL-ZONE PIR OUTDOOR	16
BATTERY PIR OUTDOOR	16-17
HIGH PERFORMANCE PIR OUTDOOR	17-18
MEDIUM RANGE PIR OUTDOOR	18
MULTI-PATTERN PIR OUTDOOR	19
OUTDOOR PIR ACCESSORIES	19
CEILING MOUNT PIR INDOOR	20-23
WALL MOUNT PIR INDOOR	23-25
INDOOR PIR ACCESSORIES	25

INDOOR FLAME PASSIVE SENSOR

INDOOR FLAME PASSIVE SENSOR	25
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FLAME SENSORS

INDOOR FLAME SENSORS	26
OUTDOOR FLAME SENSORS	27

GLASS BREAK SENSORS / SHUTTER SENSORS / MAGNETIC SWITCHES

GLASS BREAK SENSORS	28
SHUTTER SENSORS	29
GLASS BREAK SENSORS	29
SHUTTER SENSOR ACCESSORIES	29
MAGNETIC SWITCHES	30

BUSNET SYSTEM

BUSNET SYSTEM	31
PHOTOELECTRIC BEAM SENSOR	31
GLASS SENSOR	31
PASSIVE SENSORS	32
CONTROLLERS	33
REPEATER / INPUT · OUTPUT UNIT	33

AUTO DOOR SENSORS

AUTO DOOR SENSORS	34
REQUEST-TO-EXIT	35

ATTENTION SENSORS

ATTENTION SENSORS	36-37
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INDEX

39

PRODUCT ICON KEY

The product complies with EU safety, health and environmental requirements.



The product complies with ACMA regulatory requirements for network integrity, interoperability, performance characteristics, and health & safety.



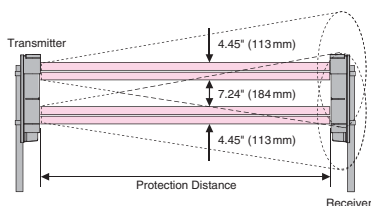
The product is Listed by UL. Representative samples of the product have been evaluated by UL and meet applicable safety standards.



Access the full product data sheet by scanning the QR code with your mobile device.



PXB-50HF	PXB-100HF	PXB-200HF
50m (165ft) outdoor	100m (330ft) outdoor	200m (660ft) outdoor



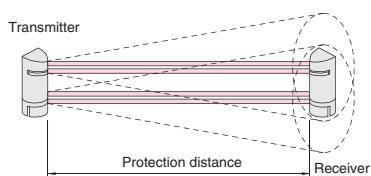
FEATURES

- 4 x synchronized high power beams
- 4 selectable beam channels to prevent crosstalk
- Double modulation for unsurpassed light immunity
- Increased beam separation minimizes nuisance alarms
- Vivid internal color aids beam alignment procedure
- Lightning and surge protection up to 15kV
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- IP65 housing



Detection System	Near infrared pulsed beam interruption system (TR-RE 4 beam simultaneous interruption)
Alarm Output	Dry contact relay output form C Contact action: Interruption time (Min.2sec.) Contact capacity: 30V (AC/DC) 0.25A (resistive load) Protective resistor
Supply Voltage	12 to 30V DC (Non-polarity)
Current Consumption	30mA to 34mA
Features	• Wide beam separation • Upper/lower beam switch • Response time adjustment • Programmable AGC
Ambient Temperature	-35°C to +66°C (-31°F to +151°F)
Optional	Pole cover, Pole-side cover, Heater
External Dimensions - WHD	114 x 450 x 100mm (4.49 x 17.72 x 3.94")
IP Rating	65
Weight - TR/RE	1.4kg (49oz) / 1.47kg (51.5oz)

PB-IN-50HFA	PB-IN-100HFA	PB-IN-200HFA
50m (165ft) outdoor	100m (330ft) outdoor	200m (660ft) outdoor



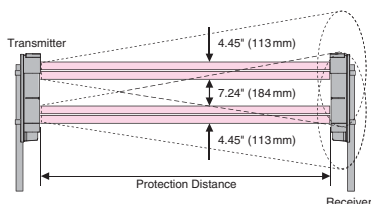
FEATURES

- 4 x synchronized high power beams
- 4 selectable beam channels to prevent crosstalk
- Double modulation for unsurpassed light immunity
- Vivid internal color body stickers aid beam alignment procedure
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- IP55 housing



Detection System	Near infrared pulsed beam interruption system (TR-RE 4 beam simultaneous interruption)
Alarm Output	Dry contact relay output N.O./N.C. selectable Reset time: Interruption time (Min. 2sec) 30V (AC/DC) 1A Max
Supply Voltage	12 to 30V DC (non-polarity)
Current Consumption	95mA to 120mA
Features	• Beam power selection • Frost proof cover • Programmable AGC
Ambient Temperature	-35°C to +66°C (-31°F to +151°F)
Optional	Pole cover, Pole-side cover, Heater, Flush mount housing
External Dimensions - WHD	104 x 390 x 98mm (4.09 x 15.35 x 3.86")
IP Rating	55
Weight - TR/RE	1.2kg (42oz) / 1.3kg (45.5oz)

PXB-50F	PXB-100F	PXB-200F
50m (165ft) outdoor	100m (330ft) outdoor	200m (660ft) outdoor



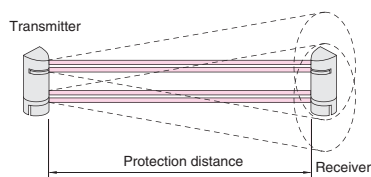
FEATURES

- 4 x synchronized high power beams
- Double modulation for unsurpassed light immunity
- Increased beam separation minimizes nuisance alarms
- Vivid internal color aids beam alignment procedure
- Lightning and surge protection up to 15kV
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- IP65 housing



Detection System	Near infrared pulsed beam interruption (TR-RE 4 beam simultaneous interruption)
Alarm Output	Dry contact relay output form C Contact action: Interruption time (Min.2 sec.) Contact capacity: 30V (AC/DC) 0.25A (resistive load) Protective resistor
Supply Voltage	12 to 30V DC (Non-polarity)
Current Consumption	30mA to 34mA
Features	• Wide beam separation • Upper/lower beam switch • Response time adjustment
Ambient Temperature	-35°C to +66°C (-31°F to +151°F)
Optional	Pole cover, Pole-side cover, Heater
External Dimensions - WHD	114 x 450 x 100mm (4.49 x 17.72 x 3.94")
IP Rating	65
Weight - TR/RE	1.4kg (49oz) / 1.47kg (51.5oz)

PB-50FA	PB-100FA	PB-200FA
50m (165ft) outdoor	100m (330ft) outdoor	200m (660ft) outdoor



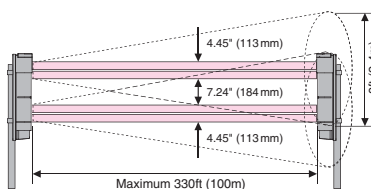
FEATURES

- 4 x synchronized high power beams
- Double modulation for unsurpassed light immunity
- Vivid internal color body stickers aid beam adjustment procedure.
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 10^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- IP55 housing



Detection System	Near infrared pulsed beam interruption system (TR-RE 4 beam simultaneous interruption)
Alarm Output	Dry contact relay output N.O./N.C. selectable Reset time: Interruption time (Min. 2sec) 30V (AC/DC) 1A Max
Supply Voltage	12 to 30V DC (non-polarity)
Current Consumption	95mA to 120mA
Features	• Programmable AGC • Frost proof cover
Ambient Temperature	-35°C to +66°C (-31°F to +151°F)
Optional	Pole cover, Pole-side cover, Heater, Flush mount housing
External Dimensions - WHD	104 x 390 x 98mm (4.09 x 15.35 x 3.86")
IP Rating	55
Weight - TR/RE	1.2kg (42oz) / 1.3kg (45.5oz)

PXB-100ATC
100m (330ft) outdoor



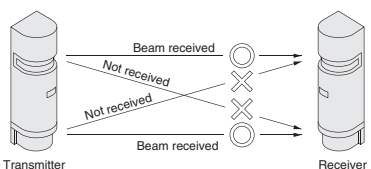
FEATURES

- Independent control of upper and lower beams
- Choose between synchro-quad and anti-crawl operation
- Dual outputs for crawl attempt and full beam break
- Sync wire allows stacking without crosstalk
- 4 selectable beam channels to prevent crosstalk
- Double modulation for unsurpassed light immunity
- Increased beam separation minimizes nuisance alarms
- Vivid internal color aids beam alignment procedure
- Lightning and surge protection up to 15kV
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- IP65 housing



Detection System	Near infrared pulsed beam interruption system (Anti-crawling)
Alarm Output	Dry contact relay output: 1c Reset time: Detection time + delay time (approx. 1.5sec) 30V (AC/DC) 0.25A Max
Supply Voltage	12 to 30V DC (non-polarity)
Current Consumption	85mA
Features	• Dual response time system • Programmable AGC
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)
Optional	Pole cover, Pole-side cover, Heater, Flush mount housing
External Dimensions - WHD	104 x 390 x 98mm (4.09 x 15.35 x 3.86")
IP Rating	55
Weight - TR/RE	1.2kg (42oz) / 1.3kg (45.5oz)

PB-IN-100AT
100m (330ft) outdoor



FEATURES

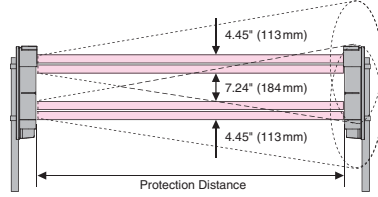
- Anti-crawl beam for high-security applications
- Independent activation of upper or lower beams
- 4 selectable beam channels to prevent crosstalk
- Dual response time system
- Double modulation for unsurpassed light immunity
- Vivid internal color body stickers aid beam adjustment procedure.
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 10^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- IP55 housing



Detection System	Near infrared pulsed beam interruption system (Anti-crawling)
Alarm Output	Dry contact relay output N.O./N.C. selectable Contact action: Interruption time (Min.2sec.) Contact capacity: 30V (AC/DC) 0.25A (resistive load) Protective resistor
Supply Voltage	12 to 30V DC (Non-polarity)
Current Consumption	Transmitter: 27mA Receiver: 48mA
Features	• Wide beam separation • Upper/lower beam switch • Programmable AGC
Ambient Temperature	-35°C to +66°C (-31°F to +151°F)
Optional	Pole cover, Pole-side cover, Heater
External Dimensions - WHD	114 x 450 x 100mm (4.49 x 17.72 x 3.94")
IP Rating	65
Weight - TR/RE	1.4kg (49oz) / 1.5kg (52.5oz)

TXF-125E

25m (82ft) 50m (165ft) 75m (245ft) 100m (330ft)



FEATURES

- 4 x synchronized high power beams
- 4 selectable operation ranges (25/50/75/100m)
- 4 selectable beam channels to prevent crosstalk
- Up to 5 year battery life using 2 x LS 33600 (3.6V 17Ah) batteries per unit
- Increased beam separation minimizes nuisance alarms
- Vivid internal color aids beam alignment procedure
- Environmental monitoring circuit
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads
- IP65 housing

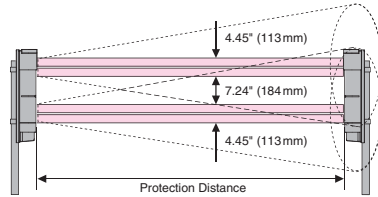


Detection System	Near infrared pulsed beam interruption (TR-RE 4 beam simultaneous interruption)
Alarm Output	Dry contact relay output form C Contact capacity: DC 30V 0.1A (resistive load)
Supply Voltage	3.6V DC (SAFT LS33600 recommended)
Current Consumption	When armed Transmitter : Approx 430mA Receiver : Approx 320mA
Features	• Single modulation beam • Wide beam separation • Upper/lower beam switch • Low battery indication • Battery saving • Repeat output • Battery sharing
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)
Optional	Pole cover
External Dimensions - WHD	114 x 450 x 135mm (4.49 x 17.72 x 5.90")
IP Rating	65
Weight - TR/RE	1.5kg (52.5oz) / 1.55kg (54.3oz)

BATTERY BEAM
Designed for compatibility with leading wireless systems, reducing the time and cost of permanent installations and allowing the use of Active Infrared Beams on rapid deployment or temporary installations.

TXF-125E-KH

100m (330ft) outdoor



FEATURES

- Specifically designed for use in TA series Tower Enclosures
- 4 x synchronized high power beams
- 4 selectable operation ranges (25/50/75/100m)
- 4 selectable beam channels to prevent crosstalk
- Up to 5 year battery life using 2 x LS 33600 (3.6V 17Ah) batteries per unit
- Increased beam separation minimizes nuisance alarms
- Vivid internal color aids beam alignment procedure
- Environmental monitoring circuit
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads



Detection System	Near infrared pulsed beam interruption (TR-RE 4 beam simultaneous interruption)
Alarm Output	Dry contact relay output form C Contact capacity: DC 30V 0.1A (resistive load)
Supply Voltage	3.6V DC (SAFT LS33600 recommended)
Current Consumption	When armed Transmitter : Approx 430mA Receiver : Approx 320mA
Features	• Single modulation beam • Wide beam separation • Upper/lower beam switch • Low battery indication • Battery saving • Repeat output • Battery sharing
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)

TOWER BEAMS
Designed specifically for use in our TA Series Tower Enclosures, supplied with mounting brackets for fast, trouble-free assembly.

PXB-50HF-KH

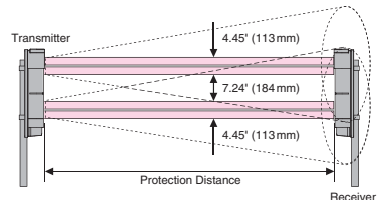
50m (165ft) outdoor

PXB-100HF-KH

100m (330ft) outdoor

PXB-200HF-KH

200m (660ft) outdoor



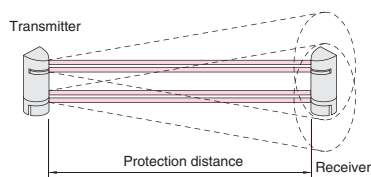
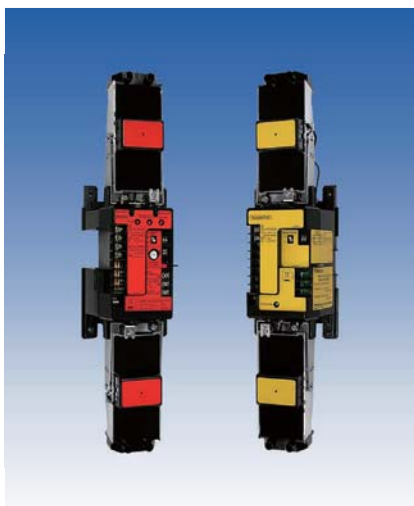
FEATURES

- Specifically designed for use in TA series Tower Enclosures
- Double coated electronics for demanding environments
- 4 x synchronized high power beams
- 4 selectable beam channels to prevent crosstalk
- Double modulation for unsurpassed light immunity
- Increased beam separation minimizes nuisance alarms
- Vivid internal color aids beam alignment procedure
- Lightning and surge protection up to 15kV
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity



Detection System	Near infrared pulsed beam interruption system (TR-RE 4 beam simultaneous interruption)
Alarm Output	Dry contact relay output form C Contact action: Interruption time (Min.2sec.) Contact capacity: 30V (AC/DC) 0.25A (resistive load) Protective resistor
Supply Voltage	12 to 30V DC (Non-polarity)
Current Consumption	30mA to 34mA
Features	• Wide beam separation • Upper/lower beam switch • Response time adjustment • Programable AGC
Ambient Temperature	-35°C to +66°C (-31°F to +151°F)

PB-50HFA-KH	PB-100HFA-KH	PB-200HFA-KH
50m (165ft) outdoor	100m (330ft) outdoor	200m (660ft) outdoor



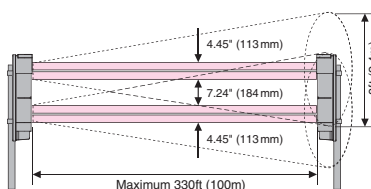
FEATURES

- Specifically designed for use in TA series Tower Enclosures
- Double coated electronics for demanding environments
- 4 x synchronized high power beams
- 4 selectable beam channels to prevent crosstalk
- Double modulation for unsurpassed light immunity
- Vivid internal color body stickers aid beam alignment procedure
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 10^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity



Detection System	Near infrared pulsed beam interruption system (TR-RE 4 beam simultaneous interruption)
Alarm Output	Dry contact relay output N.O./N.C. selectable Reset time: Interruption time (Min. 2sec) 30V (AC/DC) 1A Max
Supply Voltage	12 to 30V DC (non-polarity)
Current Consumption	60mA to 85mA
Features	• Beam power selection • Programmable AGC
Ambient Temperature	-35°C to +66°C (-31°F to +151°F)

PXB-100ATC-KH
100m (330ft) outdoor



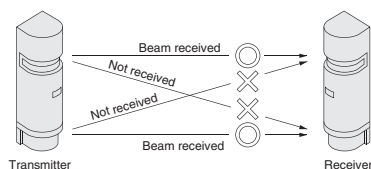
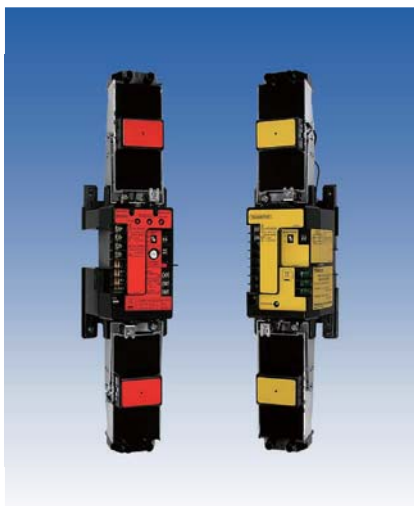
FEATURES

- Specifically designed for use in TA series Tower Enclosures
- Double coated electronics for demanding environments
- Independent control of upper and lower beams
- Choose between synchro-quad and anti-crawl operation
- Dual outputs for crawl attempt and full beam break
- Sync wire allows stacking without crosstalk
- 4 selectable beam channels to prevent crosstalk
- Double modulation for unsurpassed light immunity
- Increased beam separation minimizes nuisance alarms
- Vivid internal color body aids beam alignment procedure
- Lightning and surge protection up to 15kV
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity



Detection System	Near infrared pulsed beam interruption system (Anti-crawling)
Alarm Output	Dry contact relay output N.O./N.C. selectable Contact action: Interruption time (Min. 2sec.) Contact capacity: 30V (AC/DC) 0.25A (resistive load) Protective resistor
Supply Voltage	12 to 30V DC (Non-polarity)
Current Consumption	Transmitter: 27mA Receiver: 48mA
Features	• Wide beam separation • Upper/lower beam switch • Response time adjustment • Programmable AGC
Ambient Temperature	-35°C to +66°C (-31°F to +151°F)

PB-100AT-KH
100m (330ft) outdoor



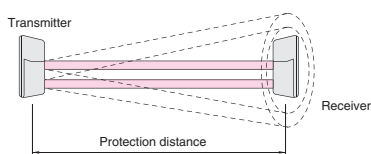
FEATURES

- Specifically designed for use in TA series Tower Enclosures
- Anti-crawl beam for high-security applications
- Independent activation of upper or lower beams
- Double coated electronics for demanding environments
- 4 selectable beam channels to prevent crosstalk
- Double modulation for unsurpassed light immunity
- Vivid internal color body stickers aid beam alignment procedure
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 10^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity



Detection System	Near infrared pulsed beam interruption system (Anti-crawling)
Alarm Output	Dry contact relay output: 1c Reset time: Detection time + delay time (approx. 1.5sec) 30V (AC/DC) 0.25A Max
Supply Voltage	12 to 30V DC (non-polarity)
Current Consumption	85mA
Features	• Dual response time system • Programmable AGC
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)

PB-20TE	PB-40TE	PB-60TE
20m (66ft) outdoor	40m (135ft) outdoor	60m (200ft) outdoor



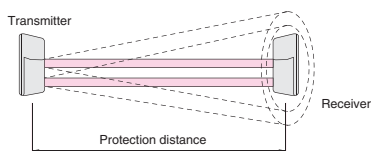
FEATURES

- 2 x synchronized high power beams
- 4 selectable beam channels to prevent crosstalk
- Double modulation for unsurpassed light immunity
- Vivid internal color body stickers aid beam alignment procedure
- $\pm 90^\circ$ horizontal $\pm 10^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- IP54 housing



Detection System	Near infrared (through type)
Alarm Output	Dry contact relay output: 1c Reset time: Detection time + delay time (approx. 1 - 3sec) 30V (AC/DC) 0.5 A Max
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	55mA to 80mA
Features	• Auto-gain control (AGC) • Monitor jack output • Frost-proof cover
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)
Mounting Position	Outdoor, indoor
Optional	Pole cover, Pole attachment
External Dimensions - WHD	73 x 170 x 71.5mm (2.87 x 6.69 x 2.81")
IP Rating	54
Weight - TR/RE	380g (13.3oz) / 400g (14oz)

PB-30TK	PB-60TK	PB-100TK
30m (100ft) outdoor	60m (200ft) outdoor	100m (330ft) outdoor



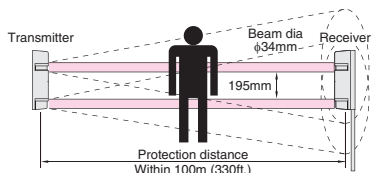
FEATURES

- 2 x synchronized high power beams
- Double modulation for unsurpassed light immunity
- $\pm 90^\circ$ horizontal $\pm 10^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- IP54 housing



Detection System	Near infrared (through type)
Alarm Output	Dry contact relay output: 1c Reset time: Detection time + delay time (approx. 1 - 3sec) 30V (AC/DC) 0.5 A Max
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	53mA to 80mA
Features	• Auto-gain control (AGC) • Monitor jack output • Frost-proof cover
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)
Mounting Position	Outdoor, indoor
Optional	Pole cover, Pole attachment
External Dimensions - WHD	73 x 170 x 71.5mm (2.87 x 6.69 x 2.81")
IP Rating	54
Weight - TR/RE	380g (13.3oz) / 400g (14oz)

PB-100ST
100m (330ft) outdoor



FEATURES

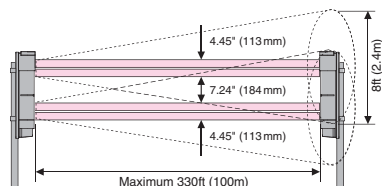
- 2 x synchronized high power beams
- Double modulation for unsurpassed light immunity
- $\pm 90^\circ$ horizontal $\pm 10^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- IP55 housing



Detection System	Near infrared pulsed beam interruption system (TR-RE 2 beam simultaneous interruption)
Alarm Output	Dry contact relay output: 1c Reset time: Detection time + delay time (approx. 1 sec) 30V (AC/DC) 0.5A Max
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	80mA
Features	• Auto-gain control (AGC) • Monitor jack output • Frost-proof cover
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)
Optional	Pole cover, Pole-side cover, Heater, Flush mount housing
External Dimensions - WHD	104 x 390 x 98mm (4.09 x 15.35 x 3.86")
IP Rating	55
Weight - TR/RE	1.2kg (42oz) / 1.2kg (42oz)

PXB-100SW

100m (330ft) outdoor



FEATURES

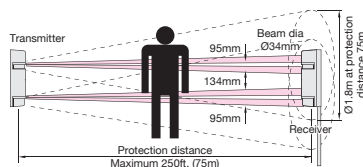
- Low-current beam for battery or solar operation
- 4 x synchronized high power beams
- 4 selectable beam channels to prevent crosstalk
- Double modulation for unsurpassed light immunity
- Increased beam separation minimizes nuisance alarms
- Vivid internal color aids beam alignment procedure
- Lightning and surge protection up to 15kV
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- IP65 housing
- Optional BA-6SLA solar panel kit available



Detection System	Near infrared pulsed beam interruption (TR-RE 4 beam simultaneous interruption)
Alarm Output	Dry contact relay output N.O./N.C. selectable Contact action: Interruption time (Min.2 sec.) Contact capacity: 30V(AC/DC) 0.25A (resistive load) Protective resistor
Supply Voltage	5 to 30V DC (with polarity)
Current Consumption	when armed 5V to 8V DC: 6mA (TR 3.7/RE 2.3mA) 10V to 30V DC: 8.3mA (TR 5.2/RE 3.1 mA)
Ambient Temperature	-35°C to +66°C (-31°F to +151°F)
External Dimensions - WHD	114 x 450 x 100mm (4.49 x 17.72 x 3.94")
IP Rating	65
Weight - TR/RE	1.5kg (52.9oz) / 1.55kg (54.7oz)

PB-IN-75SW

75m (250ft) outdoor



FEATURES

- Low-current beam for battery or solar operation
- 4 selectable beam channels to prevent crosstalk
- Double modulation for unsurpassed light immunity
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 10^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- IP55 housing
- Optional BA-6SLA solar panel kit available



Detection System	Near infrared pulsed beam interruption (TR-RE 4 beam simultaneous interruption)
Alarm Output	Dry contact relay form C Reset time: Detection time + delay time (approx. 2secs) 30V (AC/DC) 1A
Supply Voltage	5 to 8V DC or 10 to 30V DC (with polarity)
Current Consumption	when armed 5 to 8V DC: 6mA (TR. side 3.7mA) 10 to 30V DC: 25mA (TR. side 15mA)
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)
External Dimensions - WHD	104 x 390 x 98mm (4.09 x 15.35 x 3.86")
IP Rating	55
Weight - TR/RE	1.2kg (42oz) / 1.3kg (45.5oz)

BA-6SLA

solar panel kit



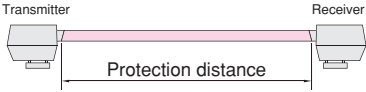
FEATURES

- Solar panel kit for PB-IN-75SW & PXB-100SW
- Consists of 1 x solar panel unit & 1 x power unit
- Supports up to 2 beam sets
- Low-voltage LED/output
- Battery not included



Power output	3V DC 50mA or less for Wireless transmitter 6V DC 12mA or less for Beam sensor
Battery (not included)	Capacity: 6V DC 7.2 Ah Size: 149 - 153mm (5.87 - 6.02") 32 - 36mm (1.26 - 1.42") 92 - 96mm (3.62 - 3.78")
Solar Panel Output	Voltage: Max 8.4V (when Sunlight 1kW/m2) Current: MAX 0.18A (ditto)
Ambient Temperature	-10°C to +50°C (+14°F to +122°F)
IP Rating	43
Weight	Power Unit: 1.3kg (45.9oz) Solar panel: 600g (21.2oz)

PXH-100EX	PXH-200EX	PXH-400EX
100m (330ft) outdoor	200m (660ft) outdoor	400m (1,320ft) outdoor



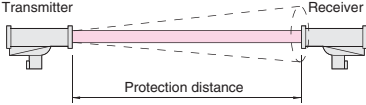
FEATURES

- Modulated pulsed high power beam
- Intrinsically safe (Iad2G4)
- Ideal for monitoring hazardous locations

Detection System	Near infrared (pulsed beam)
Alarm Output	Dry contact relay output: N.C. Contact action: Interruption time (Min. 2sec) 30V (AC/DC) 0.25A Max
Supply Voltage	100VAC
Current Consumption	9.3VA (50Hz) • 5.9VA (60Hz)
Ambient Temperature	-10°C to +40°C (14°F to +104°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	261 x 198 x 350mm (10.27 x 7.79 x 13.77")
Weight	12.5kg (440.9oz) Max

INTRINSICALLY SAFE BEAMS
 Manufactured in accordance with Technical Recommendations by Ministry of Labor - The Research Institute of Industrial Safety Japan.

PH-200SE	PH-600SE
200m (660ft) outdoor	600m (1,980ft) outdoor



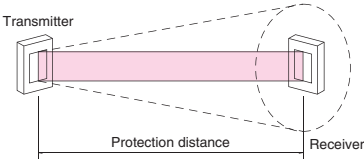
FEATURES

- Modulated pulsed high power beam
- Single beam/synchronized twin operation possible using optional module
- 4 set stacked/linear protection
- Quick Beam Alignment
- Anti-malfunction circuit
- External environmental diagnostic function

Detection System	Near infrared (through type)
Alarm Output	Dry contact relay output: N.C. Reset time: Detection time + delay time (approx. 2sec) 30V (AC/DC) 0.5A Max
Supply Voltage	10.5 to 30V DC (non-polarity)
Current Consumption	45mA
Ambient Temperature	-25°C to +55°C (-13°F to +131°F)
Mounting Position	Outdoor, indoor
Optional	SEC Circuit, Long hood
External Dimensions - WHD	124 x 170 x 240mm (5 x 6.66 x 3.66") (PH-200SE)
Weight - TR/RE	2kg (4.4lb) / 8kg (17.6lb) per

LONG RANGE BEAMS
 Designed for perimeter protection in extensive grounds with robust housing.

PB-30SU
30m (100ft) indoor



FEATURES

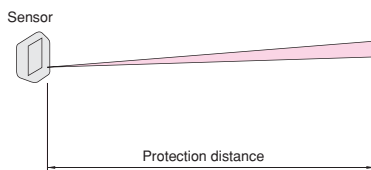
- Flush mount type
- Unobstrusive design for residential/commercial use
- Auto-gain control (AGC)

Detection System	Near infrared (through type)
Alarm Output	Dry contact relay output: N.C./N.O. Reset time: Detection time + delay time (approx. 2sec) 24V (AC/DC) 0.25A Max
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	31mA
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Indoor
External Dimensions - WHD	70 x 120 x 45mm (2.76 x 4.72 x 1.78")
Weight - TR/RE	90g (3.2oz) / 95g (3.4oz)

FLUSH MOUNT BEAM
 Features 100ft indoor coverage, flush wall mountable on a single gang box.

PR-1B

1m (3.3ft) indoor



FEATURES

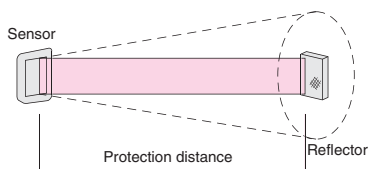
- Motionless objects can be detected
- Direct reflection system (no reflector required)
- Cable only to one end: for applications where a beam break is desirable but wiring to both ends is impractical
- Slim and compact size
- Snap off/on terminal cover for easy wiring

Detection System	Near infrared (direct reflection type)
Alarm Output	Dry contact relay output: 1c Reset time: Detection time + delay time (approx. 0.5sec) 30V (AC/DC) 0.5A Max
Supply Voltage	10.5 to 22V DC (non-polarity)
Current Consumption	60mA
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Indoor
Optional	Flush mount plate, L bracket
External Dimensions - WHD	62 x 106 x 23.5mm (2.44 x 4.17 x 0.93")
Weight	75g (2.6oz)



PR-5B

5m (16.5ft) indoor



FEATURES

- Reflection type
- Cable only to one end: for applications where a beam break is desirable but wiring to both ends is impractical
- Ideal for short distance protection across entrances and exits, corridors and staircases
- Slim and compact size
- Snap off/on terminal cover for easy wiring

Detection System	Near infrared (reflection type)
Alarm Output	Dry contact relay output: 1c Reset time: Detection time + delay time (approx. 1sec) 30V (AC/DC) 0.5A Max
Supply Voltage	10.5 to 26V DC (non-polarity)
Current Consumption	37mA
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Indoor
Optional	Flush mount plate, L bracket
External Dimensions - WHD	62 x 106 x 23.5mm (2.44 x 4.17 x 0.93")
Weight - SENS/REFL	90g (3.2oz) / 50g (1.8oz)

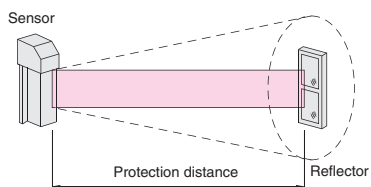


PR-10B

10m (33ft) indoor

PR-10BU

10m (33ft) indoor



FEATURES

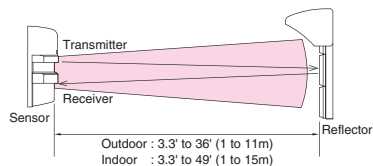
- Reflection type
- Cable only to one end: for applications where a beam break is desirable but wiring to both ends is impractical
- ±90° horizontal adjustable sensor head
- Surface mount (PR-10B) and flush mount (PR-10BU) types available

Detection System	Near infrared (reflection type)
Alarm Output	Dry contact relay output: N.C. Reset time: approx. 1sec 30V (AC/DC) 0.5A Max
Supply Voltage	10.5 to 15V DC (non-polarity)
Current Consumption	30mA
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Indoor
Optional	L bracket
External Dimensions - WHD	62 x 157 x 62mm (2.44 x 6.18 x 2.44")
Weight	220g (7.7oz)



PR-11BE

11m (36ft) outdoor



FEATURES

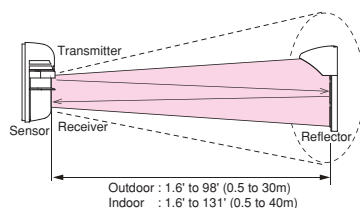
- Reflection type
- Cable only to one end: for applications where a beam break is desirable but wiring to both ends is impractical
- Suitable for both indoor and outdoor use
- Monitor jack output
- Frost-proof cover
- $\pm 90^\circ$ horizontal $\pm 10^\circ$ vertical adjustable sensor head
- 50,000 lux sunlight immunity
- IP55 housing



Detection System	Near infrared (reflection type)
Alarm Output	Dry contact relay output: N.O./N.C. selectable 30V (AC/DC) 0.5A Max
Supply Voltage	10.5 to 30V DC (non-polarity)
Current Consumption	55mA
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	73 x 170 x 71.5mm (2.87 x 6.69 x 2.81")
Weight - SENS/REFL	430g (15oz) / 490g (17oz)

PR-30BE

30m (100ft) outdoor



FEATURES

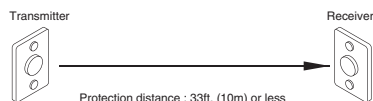
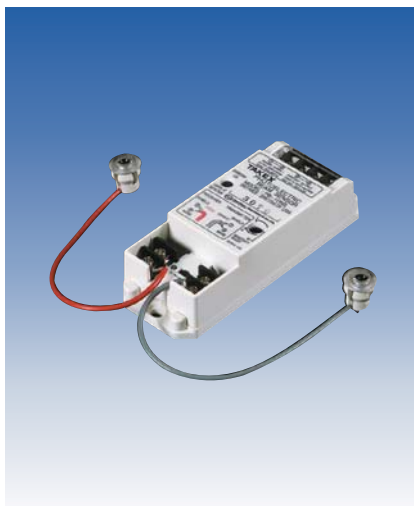
- Reflection type
- Cable only to one end: for applications where a beam break is desirable but wiring to both ends is impractical
- Suitable for both indoor and outdoor use
- Distance measurement system
- Sound check



Detection System	Near infrared (reflection type)
Alarm Output	Dry contact relay output: N.O./N.C. selectable 30V (AC/DC) 0.25A Max
Supply Voltage	10.5 to 30V (non-polarity)
Current Consumption	200mA
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	73 x 170 x 71.5mm (2.87 x 6.69 x 2.81")
Weight - SENS/REFL	370g (11.64oz) / 190g (6.7oz)

PB-10NS

10m (33ft) indoor



FEATURES

- Single beam
- Miniaturized control box
- Sensor cord can be cut to length as required
- Supplied with flush mounting plates for sensor heads
- Ideal for discreet/covert/prestige applications
- Built-in sensitivity adjustment



Detection System	Near infrared (through type)
Alarm Output	Dry contact relay output: N.O./N.C. selectable Reset time: Detection time + delay time (approx. 1sec.) 30V (AC/DC) 0.3A Max
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	45mA
Ambient temperature	-25°C to +55°C (-13°F to +131°F)
Mounting Position	Indoor, semi-outdoor
External Dimensions - WHD	SENS: 15 dia. x 16mm (0.59 dia. x 0.63") AMP: 45 x 120 x 29mm (1.77 x 4.72 x 1.14")
Weight - SENS/AMP	120g (4.2oz) inc. cable / 95g (3.3oz)

REFLECTIVE BEAMS

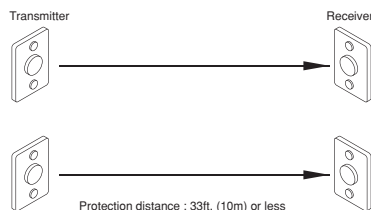
The single-ended nature of our reflective beams make them ideal for short distance monitoring across entrances and exits, corridors and staircases.

MINIATURE BEAMS

Ideal for discreet/covert/prestige applications including ATM machines, motor driven shutters, windows and corridors.

PB-10TNS

10m (33ft) indoor



FEATURES

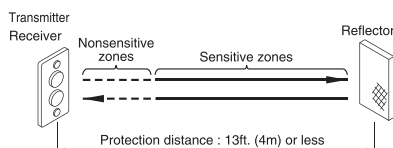
- Twin beam
- AND/OR operation mode
- Miniaturized control box
- Sensor cord can be cut to length as required
- Supplied with flush mounting plates for sensor heads
- Ideal for discreet/covert/prestige applications
- Built-in sensitivity adjustment

Detection System	Near infrared (through type)
Alarm Output	Dry contact relay output: N.O./N.C. selectable Reset time: Detection time + delay time (approx. 1 sec.) 30V (AC/DC) 0.3A Max
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	55mA
Ambient Temperature	-25°C to +55°C (-13°F to +131°F)
Mounting Position	Indoor, semi-outdoor
External Dimensions - WHD	SENS: 15 dia. x 16mm (0.59 dia. x 0.63") AMP: 45 x 120 x 29mm (1.77 x 4.72 x 1.14")
Weight - SENS/AMP	120g (4.2oz) inc. cable / 95g (3.3oz)



PB-4RNS

4m (13ft) indoor



FEATURES

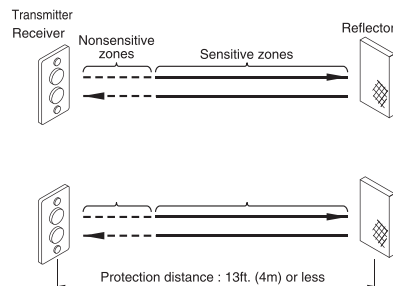
- Single beam
- Miniaturized control box
- Easy installation
- Built-in sensitivity control
- Sensor cord can be cut to length

Detection System	Near infrared (through type)
Alarm Output	Dry contact relay output : N.O./N.C. selectable Reset time: Detection time + delay time (approx. 1sec.) 30V (AC/DC) 0.3A Max
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	45mA
Ambient Temperature	-25°C to +55°C (-13°F to +131°F)
Mounting Position	Indoor, semi-outdoor
External Dimensions - WHD	SENS: 15 dia. x 16mm(0.59 dia. x 0.63") AMP: 45 x 120 x 29mm(1.77 x 4.72 x 1.14") RIF: 69 x 84 x 13mm(2.71 x 3.30 x 0.51")
Weight - SENS/AMP	120g (4.2oz) inc. cable / 95g (3.3oz)



PB-4RTNS

4m (13ft) indoor



FEATURES

- Twin beam
- Miniaturized control box
- Easy installation
- Built-in sensitivity control
- Sensor cord can be cut to length

Detection System	Near infrared (through type)
Alarm Output	Dry contact relay output : N.O./N.C. selectable Reset time: Detection time + delay time (approx. 1sec.) 30V (AC/DC) 0.3A Max
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	55mA
Ambient Temperature	-25°C to +55°C (-13°F to +131°F)
Mounting Position	Indoor, semi-outdoor
External Dimensions - WHD	SENS: 15 dia. x 16mm(0.59 dia. x 0.63") AMP: 45 x 120 x 29mm(1.77 x 4.72 x 1.14") RIF: 69 x 84 x 13mm(2.71 x 3.30 x 0.51")
Weight - SENS/AMP	120g (4.2oz) inc. cable / 95g (3.3oz)



DS-6ND

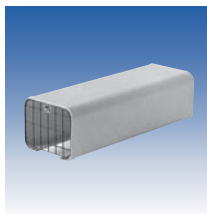
6m (20ft) indoor

**FEATURES**

- Single beam
- Miniaturized control box
- Built-in sensitivity control
- Sensor code can be cut to length

Detection System	Near infrared pulsed beam interruption
Alarm Output	Dry contact relay output : N.O. Reset time: Detection time delay time (approx. 1sec.) 30V (AC/DC) 0.3A Max
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	50mA
Ambient Temperature	-25°C to +55°C (-13°F to +131°F)
Mounting Position	Indoor, semi-outdoor
External Dimensions - WHD	SENS: 15 dia. x 16mm (0.59 dia. x 0.63") AMP: 45 x 94 x 29mm (1.77 x 3.70 x 1.14")
Weight - SENS/AMP	100g (3.5oz) inc. cable / 70g (2.5oz)

MINIATURE BEAMS
Ideal for discreet/cover/prestige applications including ATM machines, motor driven shutters, windows and corridors.

**BH-200**

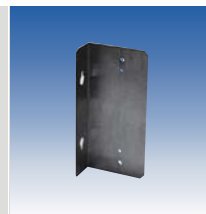
Long hood

- For:
- PH-200SE/600SE

**BL-5
BL-10**

L fittings

- For:
- PR-1B/5B (BL-5)
 - PR-10B (BL-10)

**BL-11**

L fitting

- For:
- PR-11BE
 - PR-30BE

**BP-5B
BP-5D**

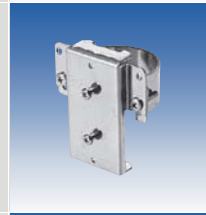
Flush mount plate (sensor)

- For:
- PR-1B
 - PR-5B

**BP-5C**

Flush mount plate (reflector)

- For:
- PR-5B

**BP-60A**

Pole attachment

- For:
- PB-20/40/60TE
 - PB-30/60/100TK

**BP-60TE**

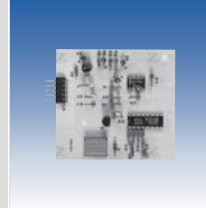
Pole cover

- For:
- PB-20/40/60TE
 - PB-30/60/100TK

**BP-200F**

Pole cover

- For:
- PB-IN-50/100/200HFA
 - PB-50/100/200FA
 - PB-IN-100AT
 - PB-100ST

**SEC Circuit**

Environmental

- For:
- PH-200SE/600SE

BEAM ACCESSORIES

**BP-50X**

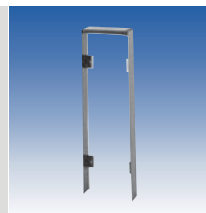
Pole cover

- For:
- PXB-50/100/200HF
 - PXB-50/100/200F
 - TXF-125E
 - PXB-100ATC
 - PXB-100SW

**BR-5
BR-10**

Reflector

- For:
- PR-5B (BR-5)
 - PR-10B/BU (BR-10)

**BS-50F**

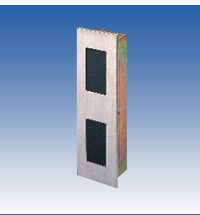
Pole side cover

- For:
- PB-IN-50/100/200HFA
 - PB-50/100/200FA
 - PB-IN-100AT
 - PB-100ST

**BS-50XP**

Pole side cover

- For:
- PXB-50/100/200HF
 - PXB-50/100/200F
 - PXB-100ATC
 - PXB-100SW

**BU-50F**

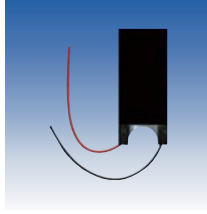
Flush mount housing

- For:
- PB-IN-50/100/200HF
 - PB-50/100/200FA
 - PB-IN-100AT
 - PB-100ST

**ER-02**

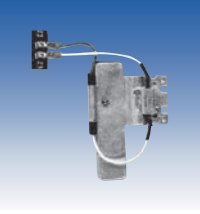
Wireless alignment checker

- For:
- PXB-50/100/200HF
 - PXB-50/100/200F
 - TXF-125E
 - PXB-100ATC
 - PXB-100SW

**HTF-24AE**

24VDC Heater kit

- For:
- PXB-50/100/200HF
 - PXB-50/100/200F
 - PXB-100ATC

**HTF-24E**

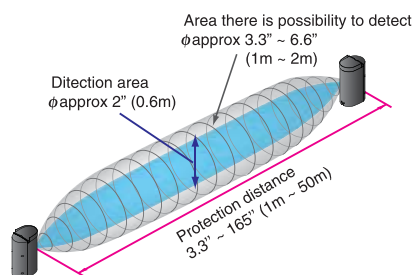
24VDC Heater kit

- For:
- PB-IN-50/100/200HFA
 - PB-50/100/200FA
 - PB-IN-100AT
 - PB-100ST

MICROWAVE SENSORS

The wavelength of microwave is extremely long which prevents the sensor from being affected by torrential rainfall, snowfall, fog or frost especially during the cold wintertime to ensure stable detection performance.

MW-50L	MW-50H
50m (165ft) outdoor	



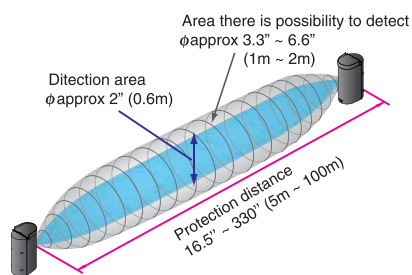
FEATURES

- High immunity against hazardous weather such as heavy fog, snowfall or rain.
- 2 frequencies (H) and (L) available
- Monitor output
- Adjustment mode switch

Detection System	Microwave 24.12GHz (MW-50L) Microwave 24.17GHz (MW-50H)
Alarm Output	Dry contact relay output :1c 30V (AC/DC) 0.25A Max
Supply Voltage	12 to 30V DC
Current Consumption	100mA
Features	Response time adjustment Automatic gain control circuit
Optional	Pole cover (BP-50MW)
External Dimensions - WHD	112 x 240 x 101mm (4.39 x 9.43 x 3.98")
Weight - TR/RE	800g (28.0oz) / 850g (29.8oz)



MW-100AL	MW-100AH
100m (330ft) outdoor	



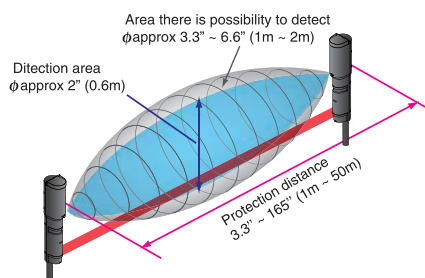
FEATURES

- High immunity against hazardous weather such as heavy fog, snowfall or rain.
- 2 frequencies (H) and (L) available
- Monitor output
- Adjustment mode switch

Detection System	Microwave 24.12GHz (MW-100AL) Microwave 24.17GHz (MW-100AH)
Alarm Output	Dry contact relay output :1c 30V (AC/DC) 0.25A Max
Supply Voltage	12 to 30V DC
Current Consumption	100mA
Features	Response time adjustment Automatic gain control circuit
Optional	Pole cover (BP-100MW)
External Dimensions - WHD	130 x 307 x 126mm (5.12 x 12.09 x 4.96")
Weight - TR/RE	1.1kg (36.8oz) / 1.1kg (38.5oz)



COM-50XTL *	COM-50XTH
50m (165ft) outdoor	



FEATURES

- Combination of photoelectric beam sensor and microwave
- Dual alarm output selectable
- High immunity against hazardous weather such as heavy fog, snowfall or rain.
- 2 frequencies (H) and (L) available for microwave
- 4 selectable beam channels for photoelectric beam
- Easier high adjustment
- Alarm output mode "AND" or "OR" are selectable with switch.
- Vivid internal color aids beam alignment procedure.

Detection System	Photoelectric beam + Microwave • Microwave 24.11GHz (com-50XTL) • Microwave 24.17GHz (com-50XTM)
Alarm Output	Dry contact relay output :1c Reset time : Detection time + delay time (approx. 2sec) 30V (AC/DC) 0.25A Max
Supply Voltage	10 to 30V DC
Current Consumption	64mA
Features	Alarm output : Transmission power selectable Programmed AGC Auto-gain lock
Ambient temperature	-20°C to 60°C (-13°F to 140°F)
Optional	Pole cover (BP-200X)
External Dimensions - WHD	114 x 450 x 100mm (4.48 x 17.72 x 3.93")
Weight - TR/RE	1.6g (56.0oz) / 1.7kg (57.8oz)



COMBINATION SENSOR

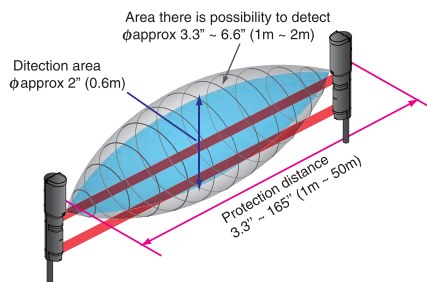
Integrated photoelectric beam sensor and microwave sensor extremely reduces nuisance false alarm extremely in harsh weather condition such as rainfall, snowfall, fog.



COM-IN-50HFL

COM-IN-50HFH

50m (165ft) outdoor



FEATURES

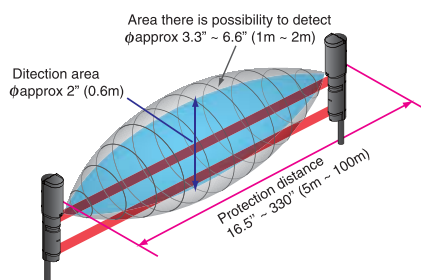
- Combination of photoelectric beam sensor and microwave
- High immunity against hazardous weather such as heavy fog, snowfall or rain.
- 2 frequencies (H) and (L) available for microwave
- 4 selectable beam channels for photoelectric beam
- Alarm output mode "AND" or "OR" are selectable with switch.

Detection System	Photoelectric beam + Microwave
Alarm Output	Dry contact relay output N.O./N.C. selectable Reset time: Interruption time (Min. 2sec) 30V (AC/DC) 1A Max
Supply Voltage	12 to 30V DC
Current Consumption	165mA
Features	Environmental output Automatic gain control (AGC) Monitor output
Optional	Pole cover (BP-50COM)
External Dimensions - WHD	104 x 627 x 102mm (4.09 x 24.69x 4.01")
Weight - TR/RE	1.9kg (67.0oz) / 2kg (70.5oz)

COM-IN-100AL

COM-IN-100AH

100m (330ft) outdoor



FEATURES

- Combination of photoelectric beam sensor and microwave
- High immunity against hazardous weather such as heavy fog, snowfall or rain.
- 2 frequencies (H) and (L) available for microwave
- 4 selectable beam channels for photoelectric beam
- Alarm output mode "AND" or "OR" are selectable with switch.

Detection System	Photoelectric beam + Microwave
Alarm Output	Dry contact relay output N.O./N.C. selectable Reset time: Interruption time (Min. 2sec) 30V (AC/DC) 1A Max
Supply Voltage	12 to 30V DC
Current Consumption	175mA
Features	Environmental output Automatic gain control (AGC) Monitor output
Optional	Pole cover (BP-100COM)
External Dimensions - WHD	130 x 703 x 126mm (5.11 x 27.68x 4.96")
Weight - TR/RE	2.1kg (72.5oz) / 2.3kg (77.7oz)



BP-50MW

Pole cover
For:
• MW-50



BP-50COM

Pole cover
For:
• COM-IN-50HF



BP-100COM

Pole cover
For:
• COM-IN-100A



BP-50X

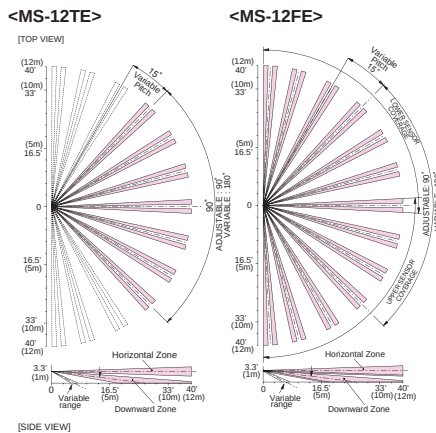
Pole cover
For:
• COM-50XT

MS-12TE

MS-12FE

12m (40ft) x 90°

12m (40ft) x 180°

FEATURES

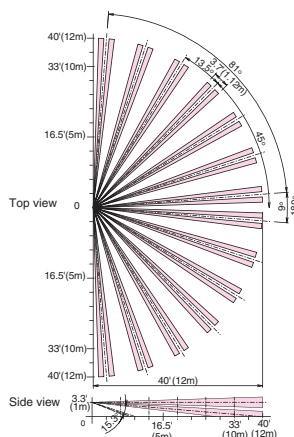
- Dual-zone detection system
- 2 to 12m (6.6 to 40ft) coverage
- Rotating sensor heads (±90° horizontal adjustment)
- AND/OR detection modes (MS-12FE only)
- IP54 housing



Model	MS-12TE	MS-12FE
Detection System	Passive infrared	
Alarm Output	Dry contact relay output: N.C./N.O. selectable 30V (AC/DC) 0.5A Max Reset time: approx 2sec. ~ 5min.	
Supply Voltage	12 to 30V DC (non-polarity)	
Current Consumption	35mA	40mA
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)	
Mounting Position	Outdoor, Indoor	
External Dimensions - WHD	80 x 234 x 91mm (3.15 x 9.22 x 3.58")	
IP Rating	54	
Weight	390g (13.8oz)	470g (16.6oz)

OMS-12FE

12m (40ft) x 180°

FEATURES

- Dual-zone detection system
- 3 to 12m (10 to 40ft) coverage
- Fixed sensor heads
- Supplied masking sheets allow precise area control
- Front and back tamper
- IP54 housing



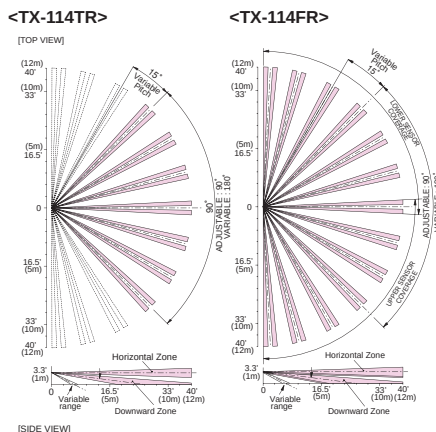
Detection System	Passive infrared (Twin x 2)
Alarm Output	Dry contact relay output N.C./N.O. selectable • Contact capacity: 30V AC/DC 0.2A MAX. (Resistive load) • Contact operation: Detection time (2sec)
Tamper Output	Dry contact relay output N.C. Contact capacity: 30V (AC/DC), 0.1A MAX. (Resistive load)
Supply Voltage	9 to 28V DC (non-polarity)
Current Consumption	20mA
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	94 x 234 x 77.5mm (3.70 x 9.21 x 3.05")
IP Rating	54
Weight	470g (16.6oz)

TX-114TR

TX-114FR

12m (40ft) x 90°

12m (40ft) x 180°

FEATURES

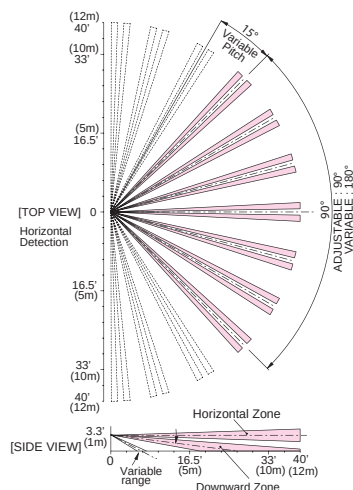
- Dual-zone detection system
- 2 to 12m (6.6 to 40ft) coverage
- Rotating sensor heads (±90° horizontal adjustment)
- Compatible with numerous wireless transmitter units
- Back-box with 3-stage tamper: front, mid, and back
- IP54 housing



Model	TX-114TR	TX-114FR
Detection System	Passive infrared	
Operation	10VDC - 0.01A Max • Alarm output • Tamper output • Trouble output	
Supply Voltage	3V to 9V DC Alkaline or Lithium Battery	
Current Consumption	25µA	35µA
Ambient Temperature	-4°F to +122°F (-20°C to +50°C)	
Mounting Position	Outdoor, Indoor	
External Dimensions - WHD	91 x 245 x 116.5mm (3.58 x 9.65 x 4.59")	
IP Rating	54	
Weight	560g (19.8oz)	620g (21.9oz)

TX-114SR

12m (40ft) x 90°



FEATURES

- Dual-zone detection system
- 2 to 12m (6.6 to 40ft) coverage
- Rotating sensor head ($\pm 90^\circ$ horizontal adjustment)
- Compatible with numerous wireless transmitter units
- IP54 housing



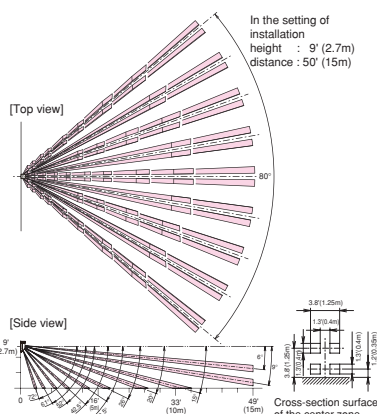
Detection System	Passive infrared: Twin
Operation	10VDC - 0.01A Max • Alarm output (Blue wires) • Tamper output (Green wires) • Trouble output
Supply Voltage	3V to 9V DC Alkaline or Lithium Battery
Current Consumption	25 μ A 5mA/3V (Test mode)
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	80 x 234 x 88mm (3.15 x 9.21 x 3.46")
IP Rating	54
Weight	400g (14.1oz)

BATTERY PIR OUTDOOR

These battery powered sensors offer the same levels of protection as our MS-12 family, designed for compatibility with leading wireless systems.

PIR-T15WE

15m (49ft) x 80°



FEATURES

- Triple mirror optical system
- 4 operation modes:
Low Position, High Position, Pet Mode, High Density
- 2 to 6m (6.6 to 20ft) installation height
- High performance triple mirror optical system
- Precise LED detection area adjustment function
- Lightning surge protection
- IP55 housing



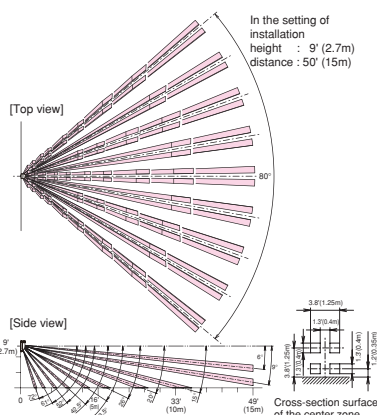
Detection System	Passive infrared (Triple mirror)
Alarm Output	Dry contact (semi-conductor) output N.C./N.O. 24V (AC/DC) 0.25A (resistive load)
Supply Voltage	9 to 28V DC (non-polarity)
Current Consumption	40mA
Features	• External output • Pet immunity • Back tamper
Ambient Temperature	-25°C to +55°C (-13°F to +131°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	114 x 285.5 x 119.5mm (4.49 x 11.24 x 4.70")
IP Rating	55
Weight	600g (21.2oz)

HIGH PERFORMANCE PIR OUTDOOR

Using the highest quality mirror-optics, these detectors have been designed for the most demanding environments where quality and reliability matter.

PIR-T15AM

15m (49ft) x 80°



FEATURES

- Triple mirror optical system
- Anti-masking function
- 4 operation modes:
Low Position, High Position, Pet Mode, High Density
- 2 to 6m (6.6 to 20ft) installation height
- High performance triple mirror optical system
- Precise LED detection area adjustment function
- Lightning surge protection
- IP55 housing



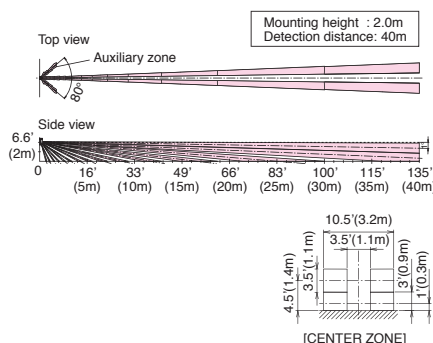
Detection System	Passive infrared (Triple mirror)
Alarm Output	Dry contact (semi-conductor) output N.C./N.O. 24V (AC/DC) 0.25A (resistive load)
Supply Voltage	9 to 28V DC (non-polarity)
Current Consumption	50mA
Features	• External output • Pet immunity • Back tamper • Anti-masking
Ambient Temperature	-25°C to +55°C (-13°F to +131°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	114 x 285.5 x 119.5mm (4.49 x 11.24 x 4.70")
IP Rating	55
Weight	600g (21.2oz)

HIGH PERFORMANCE PIR OUTDOOR

Using the highest quality mirror-optics, these detectors have been designed for the most demanding environments where quality and reliability matter.

PIR-T40NAM

45m (148ft) vertical curtain



FEATURES

- Triple mirror optical system
- Anti-masking function
- 4 operation modes: Low position, Middle position, High position, High density
- 2 to 6m (6.6 to 20ft) installation height
- Pet immunity
- Precise LED detection area adjustment function
- Lightning surge protection
- IP55 housing



Detection System	Passive infrared (Triple mirror)
Alarm Output	Dry contact (semi-conductor) output N.C./N.O. selectable 24V (AC/DC) 0.25A (resistive load)
Supply Voltage	9 to 28V DC (non-polarity)
Current Consumption	50mA
Features	• External output • Pet immunity • Back tamper • Anti-masking
Ambient Temperature	-25°C to +55°C (-13°F to +131°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	114 x 285.5 x 119.5mm (4.49 x 11.24 x 4.70")
IP Rating	55
Weight	600g (21.2oz)

PIR-30WE

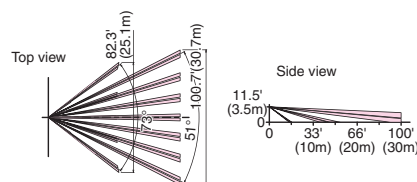
30m (100ft) wide angle

PIR-50NE

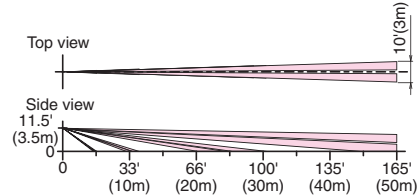
50m (165ft) vertical curtain



<PIR-30WE>



<PIR-50NE>



FEATURES

- High quality mirrored optics coupled with twin pyros
- Installation height 2 to 3.5m (6.6 to 11.5ft)
- Durable weatherproof AES resin housing
- Protective hood to deflect rain/sunlight and guard against wildlife



Detection System	Passive infrared
Alarm Output	Dry contact (semi-conductor) output: N.C./N.O. 24V (AC/DC) 0.25A (resistive load)
Supply Voltage	9 to 30V DC (non-polarity)
Current Consumption	30mA
Features	• Low supply voltage alarm • Tamper signal • LED control (L/C) • Alarm LED (ON/OFF) • Sensitivity adjust: 30-170%
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
External Dimensions	184.5 dia. x 136mm (7.26 dia. x 5.36")
IP Rating	55
Weight	1.6kg (3.5lb)

MEDIUM RANGE PIR OUTDOOR

For internal and external applications and featuring a unique bracket arrangement that allows for wall or ceiling mounting, orientated in any direction.

PA-15WE

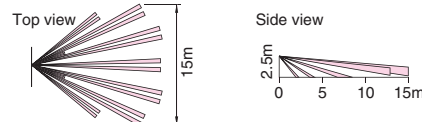
15m (50ft) wide angle

PA-30NE

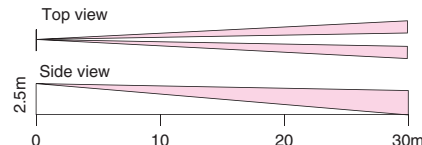
30m (100ft) long range



<PA-15WE>



<PA-30NE>



FEATURES

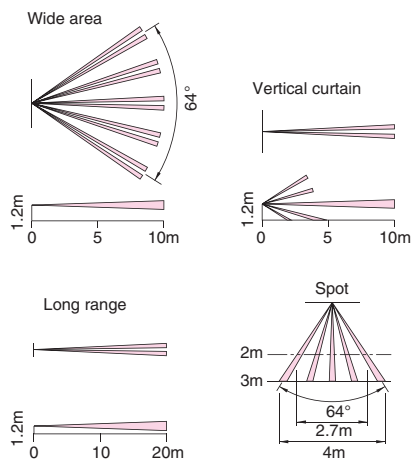
- Omni-directional bracket
- Can be mounted to ceiling, wall or pole
- Easy angle adjustment
- Weather resistant for indoor or outdoor use



Detection System	Passive infrared (Twin)
Alarm Output	Dry contact relay output: 1c Reset time: approx 2sec. 30V (AC/DC) 0.5A Max
Supply Voltage	10.5 to 30V DC (non-polarity)
Current Consumption	25mA
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
Optional	Pole attachment, Vice attachment
External Dimensions	211 x 72 dia. (8.30 x 2.83" dia.)
IP Rating	43
Weight	500g (17.6oz)

MS-100E

10m (33ft) wide / 10m (33ft) curtain / 20m (66ft) long



FEATURES

- Supplied with Wide Angle and Long Range lenses
- Choose from 4 detection patterns
- Can be mounted horizontally or vertically
- Sensor head rotates a full 180 degrees
- Weather resistant for indoor or outdoor use



Detection System	Passive infrared (Twin)
Alarm Output	Dry contact relay output: N.C./N.O. selectable Reset time: approx 2sec. 30V (AC/DC) 0.5A Max
Supply Voltage	10.5 to 28V DC (non-polarity)
Current Consumption	30mA
Detection Area	Wide angle: 10m (33ft) Vertical curtain: 10m (33ft) Long range: 20m (66ft) Spot: 3m (10ft)
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
Optional	Pole cover, Pole attachment, Wall mount bracket, Wall / Ceiling attachment, Magnetic sheet.
External Dimensions - WHD	77 x 171 x 70mm (3.03 x 6.73 x 2.76")
IP Rating	43
Weight	220g (7.8oz)

MULTI-PATTERN PIR OUTDOOR

Designed for outdoor and indoor use, the MS-100E offers the choice of wide angle, vertical and horizontal curtain, or long range detection from within a single discreet housing.

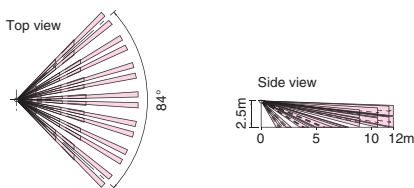
OUTDOOR PIR ACCESSORIES

	BCW-401 Wall/ceiling attachment For: • MS-100E + BW-14		BL-8400 Wall mount attachment For: • PIR-30WE/50NE • PA-8410E/8420E		BP-01 Pole attachment For: • PA-15WE/PA-30NE
	BP-02 Pole attachment For: • PIR-T15WE/AM • PA-15WE/PA-30NE		BP-03 Pole attachment For: • PIR-30WE/50NE • PA-8410E/8420E		BP-11 Pole cover For: • MS-100E
	BP-12 Pole attachment kit For: • MS-100E		BP-22 Pole attachment kit For: • MS-12TE/FE • TX-114SR		BP-32 Pole attachment clamps For: • OMS-12FE • TX-114TR/FR • PIR-T15WE/AM • PIR-T40NAM

	BR-M5 Magnetic sheet For: • MS-100E + BW-14		BV-03 Vice attachment For: • PA-15WE/PA-30NE		BW-14 Wall mount bracket For: • MS-100E
	BW-24 Wall mount bracket For: • MS-12TE/FE • TX-114SR		KP-32 Ceiling attachment For: • PIR-T15WE/AM + BP-22F		MS-LENS-WHITE White lens For: • MS-12TE/FE • TX-114FR/TR • TX-114SR
	WO-3D Wall bracket For: • PIR-30WE/50NE + BL-8400				

PA-6612E

12m (40ft) wide angle



FEATURES

- Up to 4m (13ft) installation height
- Ceiling mount design
- Unique twin mirror and two twin pyro optic system
- Accurately detects human intrusion whilst rejecting nuisance alarms from small animals
- Geared mirror array for precise area definition
- Detachable base unit with snap-in/out sensor design
- Photo MOSFET relay for silent operation
- High RFI and EMI immunity



Detection System	Passive infrared (Twin x 2)
Alarm Output	Dry contact (semi-conductor) relay output N.C./N.O. selectable Reset time: 2sec. 24V (AC/DC) 0.25A Max
Supply Voltage	10.5V to 28V DC (non-polarity)
Current Consumption	25mA
Features	• Pulse count • LED control
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting Position	Indoor
Optional	Ceiling / wall mount attachment
External Dimensions	120 dia. x 55mm (4.72 dia. x 2.16")
Weight	135g (4.8oz)

PA-6805E

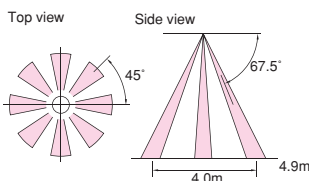
4m (13ft) spot

PA-6810E

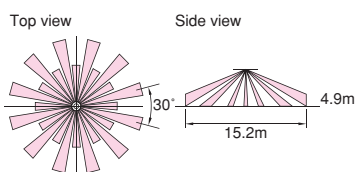
15m (50ft) x 360°



<PA-6805E>



<PA-6810E>



FEATURES

- 2 to 4.9m (6.6 to 16ft) installation height
- Ceiling mount design
- Detachable base unit with snap-in/out sensor design
- Slim and compact 47mm (1.85") profile



Detection System	Passive infrared (Twin)
Alarm Output	Dry contact (Semi-conductor) output: N.C./N.O. selectable Reset time: approx. 2sec. 24V (AC/DC) 0.25A Max
Supply Voltage	10.5 to 28V DC (non-polarity)
Current Consumption	25mA
Features	• Alarm LED control • Pulse count
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting Position	Indoor
Optional	Ceiling / wall mount attachment
External Dimensions	120 dia. x 45mm (4.72 dia. x 1.85")
Weight	110g (3.9oz)

PA-6812E

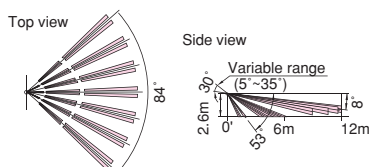
12m (40ft) wide angle

PA-6820E

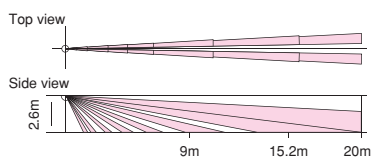
20m (66ft) vertical curtain



<PA-6812E>



<PA-6820E>



FEATURES

- 2 to 4.9m (6.6 to 16ft) installation height
- Ceiling mount design
- Geared mirror array for precise area definition
- Detachable base unit with snap-in/out sensor design
- Slim and compact 47mm (1.85") profile

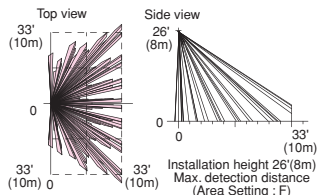


Detection System	Passive infrared (Twin)
Alarm Output	Dry contact (Semi-conductor) output: N.C./N.O. selectable Reset time: approx. 2sec. 24V (AC/DC) 0.25A Max
Supply Voltage	10.5 to 28V DC (non-polarity)
Current Consumption	25mA
Features	• Alarm LED control • Pulse count (PA-6812E only)
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting Position	Indoor
Optional	Ceiling / wall mount attachment
External Dimensions	120 dia. x 45mm (4.72 dia. x 1.85")
Weight	110g (3.9oz)

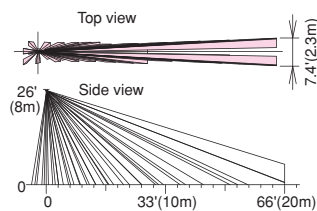
PA-8410E	PA-8420E
10m (33ft) wide angle	20m (66ft) vertical curtain



<PA-8410E>



<PA-8420E>



FEATURES

- 4 to 8m (13 to 26ft) installation height
- Ceiling mount design
- High-density detection area
- Mirror optics
- Durable weatherproof AES resin housing
- Photo MOSFET relay for silent operation

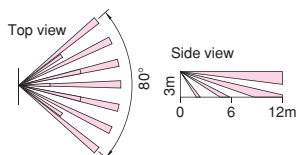


Detection System	Passive infrared
Alarm Output	Dry contact (semi-conductor) output: N.C./N.O. 24V (AC/DC) 0.25A (resistive load)
Supply Voltage	9 to 30V DC (non-polarity)
Current Consumption	30mA
Features	• Trouble alarm • Low supply voltage alarm • Tamper output • LED control • Area control • Alarm LED (ON/OFF) • Sensitivity adjust
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
External Dimensions	184.5 dia. x 136mm (7.26 dia. x 5.36")
IP Rating	55
Weight	950g (33.5oz)

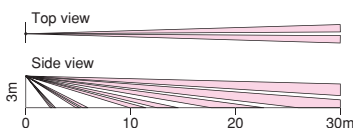
PA-7012E	PA-7030E
12m (40ft) wide angle	30m (100ft) vertical curtain



<PA-7012E>



<PA-7030E>



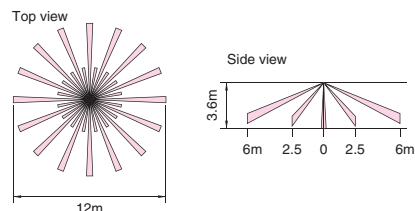
FEATURES

- Dual element digital-quad sensor
- Ceiling mount design
- Original CPU architecture controls all functions including signal processing calculations
- Automatic sensitivity adjustment relative to ambient temperature
- Alarm memory function
- High RFI and EMI immunity
- Convenient twist-lock base for easy installation



Detection System	Passive infrared (Quad)
Alarm Output	Dry contact relay output: 1c Reset time: approx. 2sec. 30V (AC/DC) 0.1A Max
Supply Voltage	9 to 18V DC (non-polarity)
Current Consumption	30mA
Ambient Temperature	-10°C to +50°C (+14°F to +122°F)
Mounting Position	Indoor
Optional	Flush mount attachment
External Dimensions	144 dia. x 92mm (5.67 dia. x 3.62")
Weight	330g (11.6oz)

PA-7100E
12m (40ft) x 360°



FEATURES

- Two dual element digital-quad sensors
- Ceiling mount design
- Original CPU architecture controls all functions including signal processing calculations
- Automatic sensitivity adjustment relative to ambient temperature
- Alarm memory function
- High RFI and EMI immunity
- Convenient twist-lock base for easy installation



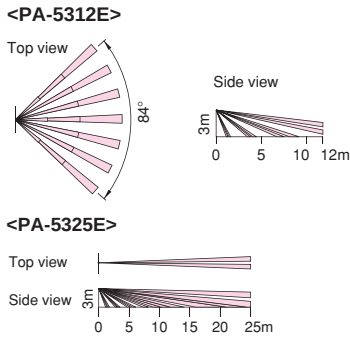
Detection System	Passive infrared (Quad x 2)
Alarm Output	Dry contact relay output: 1c Reset time: approx. 2sec. 30V (AC/DC) 0.1A Max
Supply Voltage	9 to 18V DC (non-polarity)
Current Consumption	30mA
Ambient Temperature	-10°C to +50°C (+14°F to +122°F)
Mounting Position	Indoor
Optional	Flush mount attachment
External Dimensions	144 dia. x 92mm (5.67 dia. x 3.62")
Weight	330g (11.6oz)

PA-5312E

PA-5325E

12m (40ft) wide angle

25m (82ft) vertical curtain

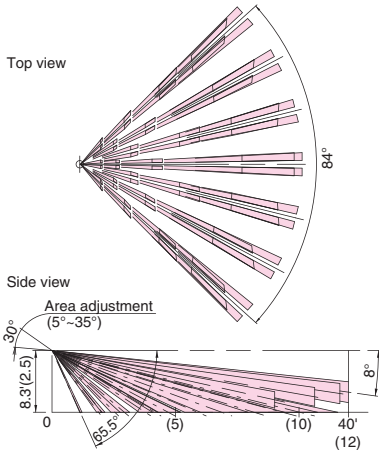
- FEATURES**
- Quad PIR detector
 - Ceiling mount design
 - High performance dual twin element optical unit
 - Original CPU architecture controls all functions including signal processing calculations
 - Slight motion detection with selectable twin/quad sensing
 - Built-in alarm memory



Detection System	Passive infrared (Quad)
Alarm Output	Dry contact relay output: N.C./N.O. selectable Reset time: approx. 2sec. 30V (AC/DC) 0.25A Max
Supply Voltage	9.5V to 30V DC (non-polarity)
Current Consumption	25mA
Features	• Fuzzy Logic • Trouble Output • Malfunction of equipment • Low voltage alarm • Monitoring failure to replace view finder • Alarm contact self-check
Ambient Temperature	-10°C to +50°C (+14°F to +122°F)
Mounting Position	Indoor
Optional	Flush mount attachment, Level checker
External Dimensions	147.3 dia. x 59mm (5.80 dia. x 2.32")
Weight	250g (8.8oz)

PA-6412PI

12m (40ft) wide angle

- FEATURES**
- 18kg (39.7lb) pet immunity
 - Ceiling mount design
 - Multiple zone technology
 - Mirror optics
 - Photo MOSFET relay for silent operation



Detection System	Passive infrared (Twin)
Alarm Output	Dry contact (Semi-conductor) relay output: N.C./N.O. selectable Reset time: approx. 2sec. 24V (AC/DC) 0.25A Max
Supply Voltage	10 to 18VDC (non-polarity)
Current Consumption	25mA
Features	• Pulse count • LED disable switch • Low voltage alarm
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting Position	Indoor
Optional	Ceiling / wall mount attachment
External Dimensions	147 dia. x 60mm (5.79 dia. x 2.36")
Weight	160g (5.6oz)

BP-150AE

Anti-Masking Base Plate




- FEATURES**
- Sensor base incorporating "Anti-Masking" capability
 - Works with Ceiling Mount PIR sensors: PA-6612E, PA-6812E & PA-6820E
 - Works with flame sensor FS-2000E



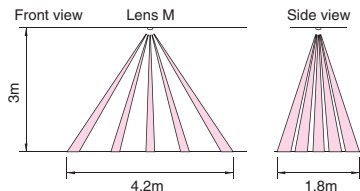
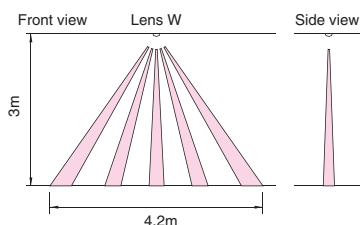
Detection System	Direct reflection system by near infrared
Alarm Output	Subject to the attached sensor unit *N.C. only for FS-2000E
Supply Voltage	9VDC to 30VDC (Subject to Sensor Head)
Current Consumption	Max 15mA (Base unit only)
Ambient Temperature	-15°C to 55°C (5°F to 131°F)
Trouble Alarm Output	N/C, 24V AC/DC
External Dimensions	150 x 15mm (5.91" x .59")
Weight	120g (4.2oz)

Whether you need simple 'spot' detection, 360° protection, curtain or wide angle coverage, Takex offer a comprehensive range of ceiling mount detectors for both domestic and industrial applications.



PA-370

6.7m (22ft) wide / narrow curtain



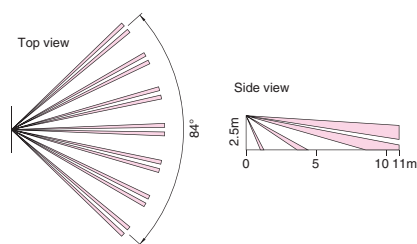
FEATURES

- Up to 5m mounting height
- Ceiling mount design
- Interchangeable lenses

Detection System	Passive infrared (Twin)
Alarm Output	Dry contact (semi-conductor) relay output: N.C./N.O. selectable Reset time: 2sec. 24V (AC/DC) 0.25A Max
Supply Voltage	10 to 18V DC (non-polarity)
Current Consumption	25mA
Features	• Pulse count • LED disable switch • Low voltage alarm • Auto reset memory
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting Position	Indoor
Optional	Ceiling / wall mount attachment, Line protection lens
External Dimensions	120 dia. x 45mm (4.72 dia. x 1.85")
Weight	120g (4.2oz)

PA-450E

11m (36ft) wide angle



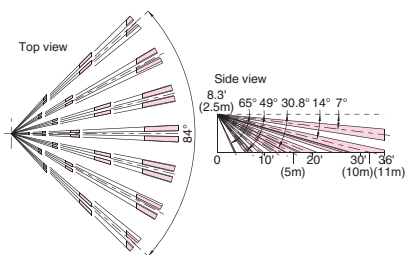
FEATURES

- Wall mount design
- Adjustable coverage to suit different mounting heights
- Creep zone eliminates dead-space below sensor
- Equipped with tamper and auto-reset memory
- Mode selector for easy setting adjustment
- Photo MOSFET relay for silent operation

Detection System	Passive infrared (Twin)
Alarm Output	Dry contact (semi-conductor) relay output: N.C./N.O. selectable Reset time: 2sec. 24V (AC/DC) 0.25A Max
Supply Voltage	9 to 18V DC (non-polarity)
Current Consumption	25mA
Features	• Pulse count • LED disable switch • Low voltage alarm
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting Position	Indoor
Optional	Ceiling / wall mount attachment
External Dimensions - WHD	70 x 110 x 45mm (2.76 x 4.33 x 1.77")
Weight	120g (4.2oz)

PA-450PI

11m (36ft) wide angle



FEATURES

- 20kg (44.1lb) pet immunity
- Wall mount design
- Adjustable coverage to suit different mounting heights
- Equipped with tamper and auto-reset memory
- Mode selector for easy setting adjustment
- Photo MOSFET relay for silent operation

Detection System	Passive infrared (Twin)
Alarm Output	Dry contact (semi-conductor) relay output: N.C./N.O. selectable Reset time: 2sec. 24V (AC/DC) 0.25A Max
Supply Voltage	9 to 18V DC (non-polarity)
Current Consumption	25mA
Features	• Pulse count • LED disable switch • Low voltage alarm
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting Position	Indoor
Optional	Ceiling / wall mount attachment
External Dimensions - WHD	70 x 110 x 45mm (2.76 x 4.33 x 1.77")
Weight	120g (4.2oz)

Attention to detail is where Takex excel, with unsurpassed immunity to RFi, power line noise, static etc. and using silent mosfet relays, these sensors are designed for a market demanding quality and reliability.

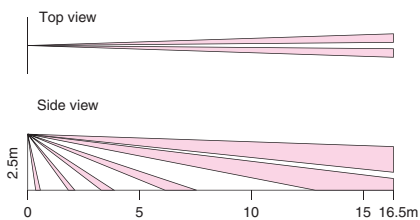


WALL MOUNT PIR INDOOR

Attention to detail is where Takeex excel, with unsurpassed immunity to RFI, power line noise, static etc, and using silent mosfet relays, these sensors are designed for a market demanding quality and reliability.

PA-460E

16.5m (54ft) vertical curtain



FEATURES

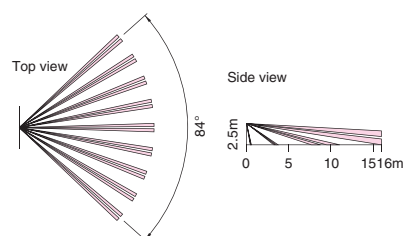
- Wall mount design
- Adjustable coverage to suit different mounting heights
- Creep zone eliminates dead-space below sensor
- Equipped with tamper and auto-reset memory
- Photo MOSFET relay for silent operation



Detection System	Passive infrared (Twin)
Alarm Output	Dry contact (semi-conductor) relay output: N.C./N.O. selectable Reset time: 2sec. 24V (AC/DC) 0.25A Max
Supply Voltage	10 to 18V DC (non-polarity)
Current Consumption	25mA
Features	• LED disable switch • Low voltage alarm
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting Position	Wall, Wall Corner (Indoor)
Optional	Ceiling / wall mount attachment
External Dimensions - WHD	70 x 110 x 45mm (2.76 x 4.33 x 1.77")
Weight	120g (4.2oz)

PA-470L

16m (52ft) wide angle / 20m (66ft) vertical curtain



FEATURES

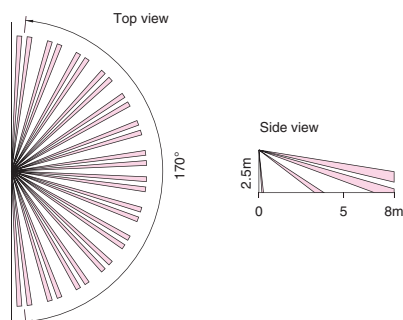
- Wall mount design
- Quad element with fuzzy logic processing system
- Pattern selectable with interchangeable lenses
- Low voltage trouble output
- Alarm memory function



Detection System	Passive infrared (Quad)
Alarm Output	Dry contact relay output: N.C./N.O. (changeover on switch) Reset time: approx. 2sec. 30V (AC/DC) 0.25A Max
Supply Voltage	9 to 18V DC (non-polarity)
Current Consumption	28mA
Features	• Memory control • LED control
Ambient Temperature	-10°C to +50°C (+14°F to +122°F)
Mounting Position	Wall, Wall Corner (Indoor)
Optional	Ceiling, wall mount attachment
External Dimensions - WHD	90 x 127 x 62.5mm (3.54 x 5.00 x 2.46")
Weight	165g (5.8oz)

PA-480S

8m (26ft) x 180°



FEATURES

- Wall mount design
- Twin element with pulse count
- Low voltage trouble output
- Alarm memory function



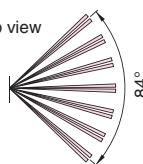
Detection System	Passive infrared (Twin)
Alarm Output	Dry contact relay output: N.C. Reset time: approx. 2sec. 30V (AC/DC) 0.1A Max
Supply Voltage	9 to 18V DC (non-polarity)
Current Consumption	32mA
Features	• Area adjustment (downward 5 positions)
Ambient Temperature	-10°C to +50°C (+14°F to +122°F)
Mounting Position	Wall, Wall Corner (Indoor)
Optional	Ceiling / wall mount attachment
External Dimensions - WHD	90 x 127 x 62.5mm (3.54 x 5.00 x 2.46")
Weight	165g (5.8oz)

PA-4810E	PA-4820E
12m (40ft) wide angle	25m (82ft) vertical curtain

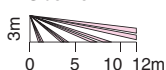


<PA-4810E>

Top view

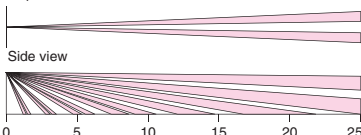


Side view

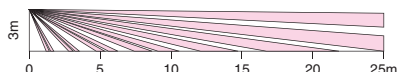


<PA-4820E>

Top view



Side view



FEATURES

- Wall mount design
- Quad element with fuzzy logic processing system
- Mirror optics
- Slight motion detection with selectable twin/quad sensing
- Low voltage trouble output
- Alarm memory function



Detection System	Passive infrared (Quad)
Alarm Output	Dry contact relay output: N.C./N.O. (changeover on switch) Reset time: approx. 2sec. 30V (AC/DC) 0.25A Max
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	32mA
Features	• Slight motion detection • Memory control LED control • Trouble alarm
Ambient Temperature	-10°C to +50°C (+14°F to +122°F)
Mounting Position	Wall, Wall Corner (Indoor)
Optional	Ceiling / wall mount attachment
External Dimensions - WHD	90 x 127 x 60mm (3.54 x 5.00 x 2.36")
Weight	165g (5.8oz)



BCW-401

Wall/ceiling attachment

For:

- PA-450E/450PI/460E
- PA-470L/480S
- PA-6612E
- PA-6805/6810/6812/6820E



BU-8400

Embedding attachment

For:

- PA-8410E/8420E



BL-5000

Wall mount attachment

For:

- PA-6612E
- PA-6805/6810/6812/6820E
- PA7012/7030/7100E
- PA-5312/5325E
- PA-6412PI



BU-5300/6800/7000

Flush mount attachment

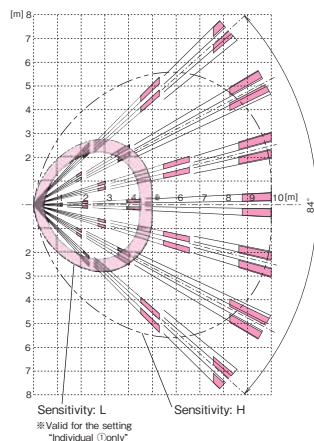
For:

- PA-5312/5325E
- PA-6805/6810/6812/6820E
- PA7012/7030/7100E

FP-2500E
10m (33ft) / 7cm (2.75") flame



Wide Angle



FEATURES

- Two output modes selectable
- Forced output operation
- Alarm memory
- Pet immunity (Passive sensor)
- Area adjustment (Passive sensor)
- Operation set-up by detection timer (Flame sensor)



Detection System	Ultraviolet rays detection + Passive infrared • Flame sensor part 7cm (2.75") gas • Passive sensor part Wide Angle 10m (33ft)
Detection Distance	7cm (2.75") gas/ lighter flame at 10m (33ft)
Alarm Output	2 x Dry contact relay (N.O./N.C. selectable) (1 x Flame sensor, 1 x Passive sensor) 1 x Dry contact relay N.C. (Tamper)
Supply Voltage	10 to 30V (non-polarity)
Current Consumption	20mA. Max
Ambient Temperature	-15°C to +55°C
Mounting Position	Indoor
External Dimensions - WHD	110 x 70 x 55mm (4.33 x 2.70 x 2.17")
Weight	120g (4.23oz)

INDOOR FLAME SENSORS

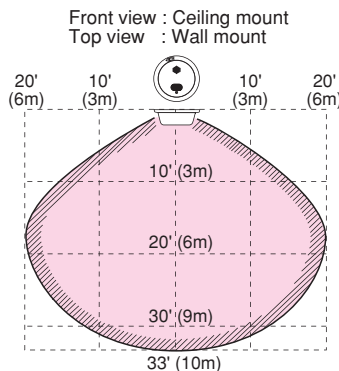
With faster detection than conventional smoke alarms, our Ultra-Violet (UV) flame sensors are practical where smoke detection is not an option, such as diesel engine rooms and open environments.

FS-1000E

10m (33ft) / 7cm (2.75") flame



FS-1000E (B)



FEATURES

- High sensitivity ultraviolet flame sensor
- Built-in sounder
- Adjustable response time
- Battery or DC operation



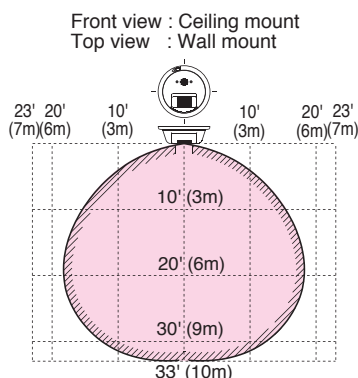
Detection System	Ultraviolet rays detection
Detection Distance	7cm (2.75") gas/lighter flame at 10m (33ft)
Alarm Output	Open collector (semi-conductor) output N.O. 30V DC • 50mA Max Delay time (approx. 10sec)
Supply Voltage	Type AA Alkaline battery (LR-6) x 2 External wiring 9 to 30V DC
Current Consumption	50mA
Ambient Temperature	-10°C to 60°C (+14°F to 140°F)
Mounting Position	Ceiling, wall (indoor)
External Dimensions	120 dia x 40mm (4.72" dia x 1.57")
Weight	200g (7.05oz)

FS-2000E

10m (33ft) / 7cm (2.75") flame



FS-2000E (B)



FEATURES

- High sensitivity ultraviolet flame sensor
- Adjustable detection area
- Built-in sounder
- Adjustable response time



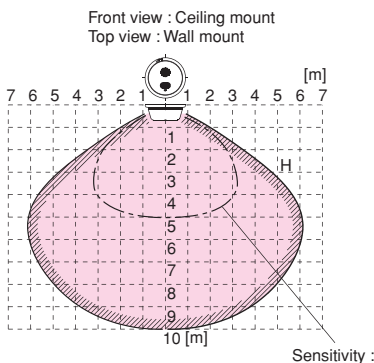
Detection System	Ultraviolet rays detection
Detection Distance	7cm (2.75") gas/lighter flame at 10m (33ft)
Alarm Output	Dry contact relay output form C Contact action time Min. 2sec. Contact capacity: 30V (AC/DC) 0.3A
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	Stand-by: 25mA or less Alarm: 75mA or less with buzzer 40mA or less without buzzer
Ambient Temperature	-10°C to 60°C (+14°F to 140°F)
Mounting Position	Ceiling, wall (indoor)
External Dimensions	120 dia x 40mm (4.72" dia x 1.57")
Weight	150g (5.29oz)

FS-3500E

10m (33ft) / 7cm (2.75") flame



FS-3500E (B)



FEATURES

- High sensitivity ultraviolet flame sensor
- Prerecorded flame prohibition and non-smoking messages
- Choose between long and short message options
- English, Spanish, Japanese, Chinese, Korean languages message
- 80dB/1m (3.3ft) max
- Adjustable response time
- Battery or DC operation



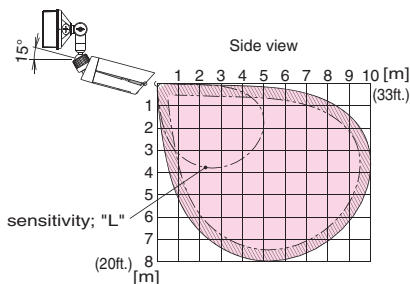
Detection System	Ultraviolet rays detection
Detection Distance	7cm (2.75") gas/lighter flame at 10m (33ft)
Alarm Output	Relay contact output N.C./N.O. Detection time plus 2 sec. Output 30V DC 0.1 A
Supply Voltage	Type AA Alkaline battery (LR6) x 2 (not included) External wiring 10 to 30V DC (Polarized)
Current Consumption	Stand by: 40mA or less Alarm: 300mA or less
Warning Message	"Japanese" "English" "Chinese" "Korean" "Spanish"
Mounting Position	Ceiling, wall (indoor)
External Dimensions	120 dia. x 45mm (4.72" dia. x 1.77")
Weight	180g (6.35oz) (battery excluded)

FS-5000E

10m (33ft) / 7cm (2.75") flame



FS-5000EB



FEATURES

- High sensitivity ultraviolet flame sensor
- Omni-directional bracket
- Weather proof housing for indoor or outdoor use
- Adjustable response time
- DAY/NIGHT Sensing



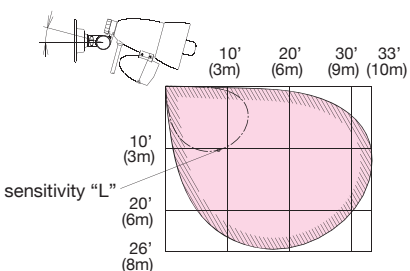
Detection System	Ultraviolet rays detection
Detection Distance	7cm (2.75") gas/lighter flame at 10m (33ft)
Alarm Output	Dry contact relay Form C Contact capacity: 30V (AC/DC) 0.5A or less
Supply Voltage	10 to 30V DC (Non-polarity)
Current Consumption	35mA or less
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
External Dimensions	211 x 72 dia. (8.30" x 2.83" dia.)
IP Rating	43
Weight	550g (19.4oz)

FS-6000E

10m (33ft) / 7cm (2.75") flame



FS-6000EB



FEATURES

- High sensitivity ultraviolet flame sensor
- Prerecorded flame prohibition message
- English, Spanish, French & Italian languages
- 80dB/1m (3.3ft) max
- Form C relay output
- Adjustable response time



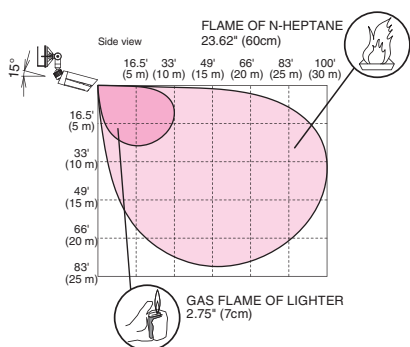
Detection System	Ultraviolet rays detection
Detection Distance	7cm (2.75") gas/lighter flame at 10m (33ft)
Alarm Output	Dry contact relay Form C Contact capacity: 30V (AC/DC) 0.5A or less
Supply Voltage	12V DC (Non-polarity)
Current Consumption	35m standby, 500mA max.
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
External Dimensions	211 x 72 dia. (8.30" x 2.83" dia.)
IP Rating	33
Weight	1kg (2.2lbs)

TX-124R

10m (33ft) / 7cm (2.75") flame



TX-124R



FEATURES

- High sensitivity ultraviolet flame sensor
- Powered by DC3V (CR-123A) battery
- Compatible with leading wireless transmitter models
- H/L sensitivity settings and 4-stage detection timer
- Omni-directional bracket
- Weather proof housing for indoor or outdoor use
- Adjustable response time

Detection System	Ultraviolet rays detection
Alarm Output	(Blue/White wires) Solid State Switch N.C 3VDC • 0.01A Max Output when detecting Ultraviolet, Real time + delay time 2 sec
Detection Distance	7cm (2.75") gas/lighter flame at 10m (33ft) 60cm (23.62") Flame of n-heptane on fire plate 15 x 15cm (5.91 x 5.91") at 30m (100ft) *The flame size is approximate.
Supply Voltage	(Red/Black wires) 3V DC (CR-123A)
Current Consumption	Standby: 55µA Max, Detection: 5mA Max
Ambient temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
External Dimensions	211 x 72 dia. (8.30" x 2.83" dia.)
IP Rating	43
Weight	510g (18.0oz)

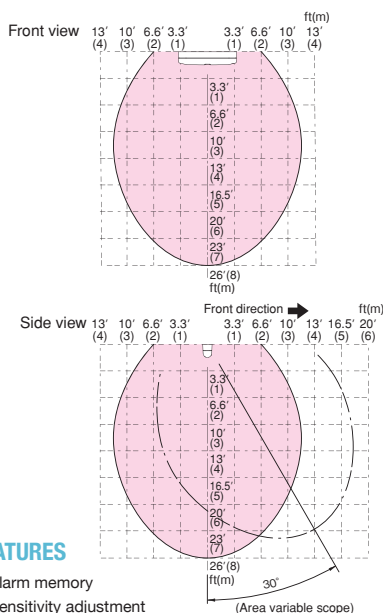


GLASS BREAK SENSORS

Takeex Glass break sensors use Ultrasound to detect cutting as well as breaking glass. The advantage of this device is nothing has to be fitted on the glass itself, and it is possible to cover numerous panes with just one device.

GS-2000E

7m (23ft) x 8m (26ft)



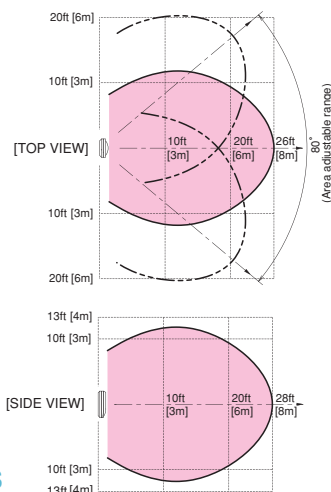
FEATURES

- Alarm memory
- Sensitivity adjustment
- Slim and compact design
- Glass checker EG-2000 available (Optional)
- Screw-less terminal block

Detection System	Ultrasonic
Alarm Output	Dry contact relay output : N.C./N.O. selectable Reset time: approx. 2sec 30V (AC/DC) 0.1 A Max
Supply Voltage	9 to 20V DC (non-polarity)
Current Consumption	25mA
Ambient Temperature	-10°C to +50°C (+14°F to +122°F)
Mounting Position	Ceiling / Wall (indoor)
External Dimensions -WHD	200x 45 x 32mm (7.05 x 4.58 x 1.12")
Weight	120g (4.23oz)

GS-1100E

7m (23ft) x 8m (26ft)



FEATURES

- Ultrasonic type
- Wall mount design
- Easy installation
- Alarm/environmental LED operation check
- Alarm memory function
- Sensitivity adjustment
- Slim and compact 32mm (1.26") profile

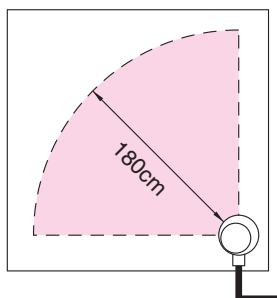
Detection System	Ultrasonic
Alarm Output	Dry contact relay output: N.C. Reset time: approx. 2sec 30V (AC/DC) 0.1 A Max
Supply Voltage	9 to 20V DC (non-polarity)
Current Consumption	30mA
Ambient Temperature	-10°C to +50°C (+14°F to +122°F)
Mounting Position	Wall (indoor)
External Dimensions -WHD	70 x 110 x 32mm (2.75 x 4.33 x 1.26")
Weight	120g (4.23oz)

GS-02

straight cord

GS-02C

curled cord



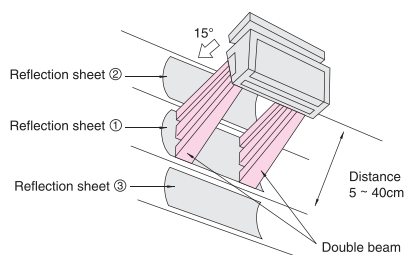
FEATURES

- 180cm (6ft) coverage radius
- Piezoelectric type
- Memory reset function

Detection System	Piezoelectric type
Alarm Output	Dry contact relay output: N.C. Reset time: approx. 2sec 30V (AC/DC) 0.5A Max
Supply Voltage	10.5 to 15V DC (non-polarity)
Current Consumption	20mA
Ambient Temperature	-30°C to +55°C (-22°F to +131°F)
Mounting Position	Surface of glass (indoor)
External Dimensions	37.0 dia x 15mm (1.46 dia x 0.6")
Weight	GS-02: 30g (1.06oz) GS-02C: 50g (1.76oz)

PR-S3

5 (0.2ft) to 40 cm (1.3ft) indoor



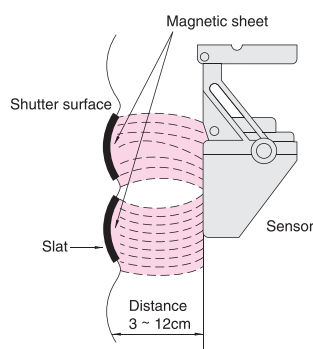
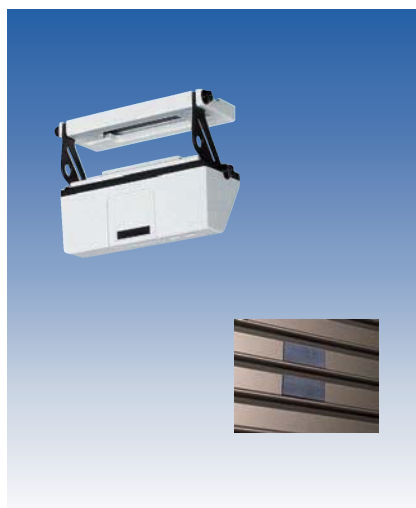
FEATURES

- Double beam
- Built-in operation LED output point
- Built-in attenuation LED

Detection System	Near infrared (refraction type)
Alarm Output	Dry contact relay output: 1C Reset time: 1 to 2sec 30V (AC/DC) 0.3A Max
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	35mA
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Shutter case, intel (indoor)
Optional	Sensor bracket, Sheet bracket
External Dimensions - WHD	94x 50 x 40mm (3.70x 1.96 x 1.57")
Weight	115g (4.1oz)

SH-M5

3 (0.1ft) to 12cm (0.4ft) indoor



FEATURES

- High noise intensity
- Not affected by external environmental
- Alarm memory

Detection System	Magnetic modulation
Alarm Output	Dry contact relay output: 1c Response time: 1 to 2sec 30V (DC) 0.5A Max
Supply Voltage	10 to 30V (non-polarity)
Current Consumption	38mA
Ambient Temperature	-4°F to +122°F (-20°C to +50°C)
Mounting Position	Shutter (indoor)
External Dimensions - WHD	92x 43 x 36mm (3.62 x 1.69 x 1.41")
Weight	95g (3.35oz)



EG-2000

Operation checker

For:

- GS-1100E
- GS-2000E



BF-S3

Sheet bracket

For:

- BR-S3/M5



BR-M5

Magnet sheet

For:

- SH-M5

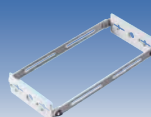


BR-S3

Reflection sheet

For:

- PR-S3



BS-S3

Sensor bracket

(for over slide shutter use)

For:

- PR-S3, SH-M5



BZ-S2

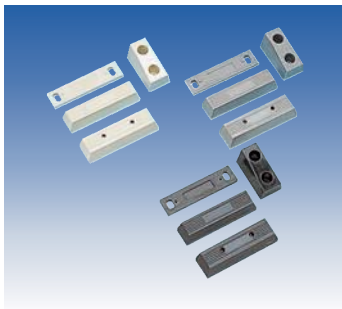
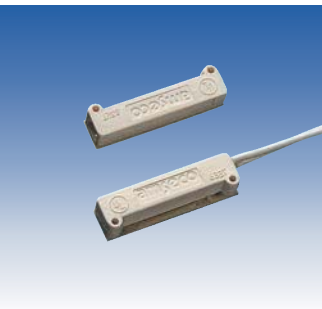
Sensor bracket

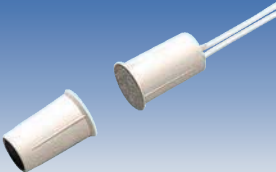
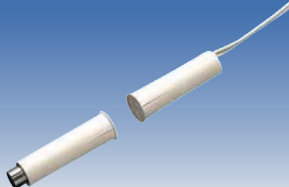
For:

- PR-S3, SH-M5

MAGNETIC SWITCHES

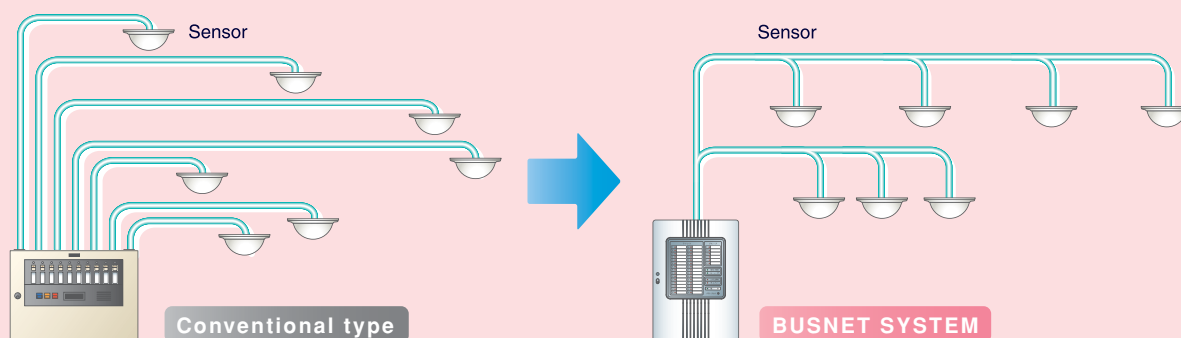
Widely used in the majority of home security systems, it is placed on windows or doors to detect when these fixtures are unwillingly opened.

MG-103S	MG-104S	MG-104	AMS-9																																
Operating distance 15mm max	Operating distance 20mm	Operating distance 20mm	Operating distance 12mm																																
																																			
FEATURES • Testing hole for loop check • Removable cover with spacer, stopper	FEATURES • Easy wiring, just only to insert wire into wiring hole, and tighten the screw with spacer, stopper	FEATURES • Easy wiring, just only to insert wire into wiring hole, and tighten the screw	FEATURES • Super miniaturized magnetic switch • Lead wire type																																
<table><tr><td>Mouting position</td><td>Exposed type</td></tr><tr><td>Alarm Output</td><td>N/C</td></tr><tr><td>External Dimensions - WHD</td><td>50 x 14 x 12mm (1.97 x 0.55 x 0.47")</td></tr><tr><td>Weight</td><td>20g (0.7oz)</td></tr></table>	Mouting position	Exposed type	Alarm Output	N/C	External Dimensions - WHD	50 x 14 x 12mm (1.97 x 0.55 x 0.47")	Weight	20g (0.7oz)	<table><tr><td>Mouting position</td><td>Exposed type</td></tr><tr><td>Alarm Output</td><td>N/C</td></tr><tr><td>External Dimensions - WHD</td><td>48.5 x 11.5 x 9 mm (1.91 x 0.45 x 0.35")</td></tr><tr><td>Weight</td><td>20g (0.7oz)</td></tr></table>	Mouting position	Exposed type	Alarm Output	N/C	External Dimensions - WHD	48.5 x 11.5 x 9 mm (1.91 x 0.45 x 0.35")	Weight	20g (0.7oz)	<table><tr><td>Mouting position</td><td>Exposed type</td></tr><tr><td>Alarm Output</td><td>N/C</td></tr><tr><td>External Dimensions - WHD</td><td>50 x 14 x 12mm (1.97 x 0.55 x 0.47")</td></tr><tr><td>Weight</td><td>20g (0.7oz)</td></tr></table>	Mouting position	Exposed type	Alarm Output	N/C	External Dimensions - WHD	50 x 14 x 12mm (1.97 x 0.55 x 0.47")	Weight	20g (0.7oz)	<table><tr><td>Mouting position</td><td>Exposed type</td></tr><tr><td>Alarm Output</td><td>N/C</td></tr><tr><td>External Dimensions - WHD</td><td>25 x 5.5 x 6mm (0.98 x 0.21 x 0.24")</td></tr><tr><td>Weight</td><td>6g (0.2oz)</td></tr></table>	Mouting position	Exposed type	Alarm Output	N/C	External Dimensions - WHD	25 x 5.5 x 6mm (0.98 x 0.21 x 0.24")	Weight	6g (0.2oz)
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AMS-10C	AMS-17	AMS-25B	AWS-21																																
Operating distance 20mm	Operating distance 8mm	Operating distance 20mm	Operating distance 30mm																																
																																			
FEATURES • Miniaturized magnetic switch • Lead wire type	FEATURES • Super miniaturized magnetic switch • Lead wire type	FEATURES • Lead wire type	FEATURES • Magnetic switch for wide gap																																
<table><tr><td>Mouting position</td><td>Exposed type</td></tr><tr><td>Alarm Output</td><td>N/C</td></tr><tr><td>External Dimensions - WHD</td><td>33.5 x 8.5 x 14.5mm (1.32 x 0.33 x 0.57")</td></tr><tr><td>Weight</td><td>16g (0.6oz)</td></tr></table>	Mouting position	Exposed type	Alarm Output	N/C	External Dimensions - WHD	33.5 x 8.5 x 14.5mm (1.32 x 0.33 x 0.57")	Weight	16g (0.6oz)	<table><tr><td>Mouting position</td><td>Exposed type</td></tr><tr><td>Alarm Output</td><td>N/C</td></tr><tr><td>External Dimensions</td><td>11dia x 16mm (0.43 x 0.63")</td></tr><tr><td>Weight</td><td>10g (0.4oz)</td></tr></table>	Mouting position	Exposed type	Alarm Output	N/C	External Dimensions	11dia x 16mm (0.43 x 0.63")	Weight	10g (0.4oz)	<table><tr><td>Mouting position</td><td>Exposed type</td></tr><tr><td>Alarm Output</td><td>1c</td></tr><tr><td>External Dimensions</td><td>24dia x 30mm (0.94 x 1.18")</td></tr><tr><td>Weight</td><td>30g (1.1oz)</td></tr></table>	Mouting position	Exposed type	Alarm Output	1c	External Dimensions	24dia x 30mm (0.94 x 1.18")	Weight	30g (1.1oz)	<table><tr><td>Mouting position</td><td>Exposed type</td></tr><tr><td>Alarm Output</td><td>N/C</td></tr><tr><td>External Dimensions</td><td>Switch: 11dia x 33mm(0.43 x 1.30") Magnet: 11dia x 37mm(0.43 x 1.46")</td></tr><tr><td>Weight</td><td>18g (0.6oz)</td></tr></table>	Mouting position	Exposed type	Alarm Output	N/C	External Dimensions	Switch: 11dia x 33mm(0.43 x 1.30") Magnet: 11dia x 37mm(0.43 x 1.46")	Weight	18g (0.6oz)
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What is the BUSNET SYSTEM?

- ◆The BUSNET SYSTEM is the high speed information transmission system, connecting a controller and terminal devices.
- ◆Applying the time-division multiplex transmission method, the BUSNET SYSTEM achieves multi-point transmission regardless of the distance. On top of this, compared to the conventional relay contact point type, it saves labor for both installation and wiring, achieving a high level of reliability as well.
- ◆All terminal devices can be connected with a common transmission line. You can additionally connect a repeater to the transmission line later, according to the layout change and/or expansion of a site.



BUS-50XF

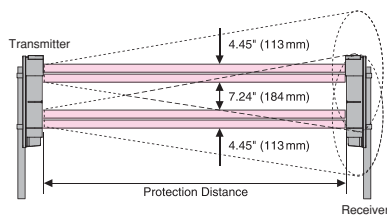
50m (165ft) outdoor

BUS-100XF

100m (330ft) outdoor

BUS-200XF

200m (660ft) outdoor



FEATURES

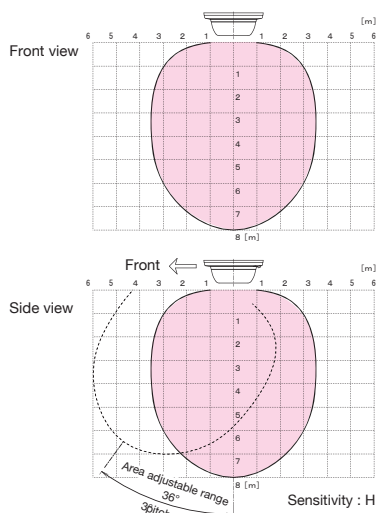
- 4 x synchronized high power beams
- 4 selectable beam channels to prevent crosstalk
- Double modulation for unsurpassed light immunity
- Increased beam separation minimizes nuisance alarms
- Vivid internal color aids beam alignment procedure
- Lightning and surge protection up to 15kV
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- IP65 housing

Only for BUSNET

Detection System	Near infrared pulsed beam interruption system (TR-RE 4 beam simultaneous interruption)
Transmission signal	Alarm signal, Environmental signal, Tamper signal (Receiver only), Low power supply signal
Supply Voltage	10 to 30VDC (Polarity)
Current Consumption	34 to 38mA when armed, 60 to 68mA Max
Features	• Wide beam separation • Upper/lower beam switch • Response time adjustment
Ambient Temperature	-35°C to +66°C (-31°F to +151°F)
Optional	Pole cover, Pole-side cover, Heater
External Dimensions - WHD	114 x 450 x 100mm (4.49 x 17.72 x 3.94")
IP Rating	65
Weight-TR/RE	1.5kg (52.9oz) / 1.55kg (54.7oz)

BUS-G1200

6m (20ft) indoor



FEATURES

- Alarm memory
- Sensitivity adjustment
- Slim and compact design
- Glass checker EG-2000 available (Optional)

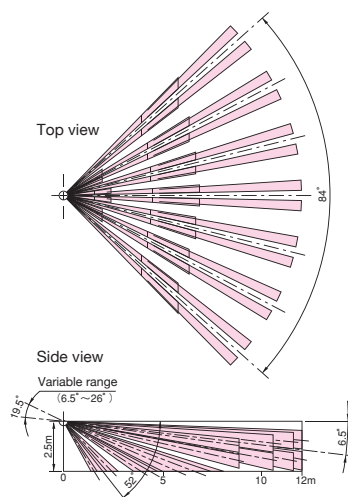
Only for BUSNET

Detection System	Ultrasonic
Transmission signal	Normal status signal, Alarm signal, Low power supply signal
Supply Voltage	9 to 30V DC (polarity)
Current Consumption	45mA less
Ambient Temperature	-15°C to +55°C (-5°F to +131°F)
Mounting Position	Ceiling, wall (indoor)
External Dimensions	125 dia x 40mm (4.92 x 4.57")
Weight	130g (4.6oz)

BUS-6612

BUS-6612W

12m (40ft) wide angle



FEATURES

- Up to 4m (13ft) installation height
- Ceiling mount design
- Unique twin mirror and two twin pyro optic system
- Accurately detects human intrusion whilst rejecting nuisance alarms from small animals

Only for BUSNET

Detection System	Passive infrared (Twin mirror)
Transmission signal	Normal status signal, Alarm signal, Low power supply signal
Supply Voltage	9 to 30V DC (polarity)
Current Consumption	20mA Max
Features	• Alarm memory • Pulse count selectable
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting Position	Ceiling, mount
Optional	Ceiling / wall mount attachment
External Dimensions- 6612 /6612W	150 dia x 62 mm (5.90 x 2.44") 125 dia x 60.5mm (4.92 x 2.38")
Weight- 6612/6612W	150g (5.3oz) / 170g (6.0oz)

BUS-6805B

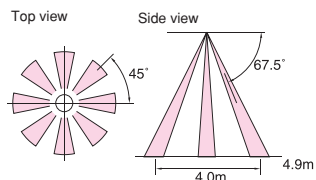
BUS-6810B

4m (13ft) spot

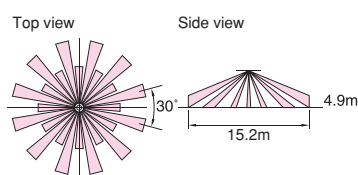
15m (50ft) x 360°



<BUS-6805B>



<BUS-6810B>



FEATURES

- 2 to 4.9m (6.6 to 16ft) installation height
- Ceiling mount design
- Detachable base unit with snap-in/out sensor design
- Slim and compact 47mm (1.85") profile

Only for BUSNET

Detection System	Passive infrared (Twin)
Transmission signal	Normal status signal, Alarm signal, Low power supply signal
Supply Voltage	9 to 30V DC (polarity)
Current Consumption	20mA Max
Features	• Alarm memory • Pulse count selectable
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting Position	Ceiling, Wall indoor
Optional	Ceiling / wall mount attachment
External Dimensions	125dia. x 56.5mm (4.72 dia. x 1.85")
Weight	130g (4.6oz)

BUS-6812B

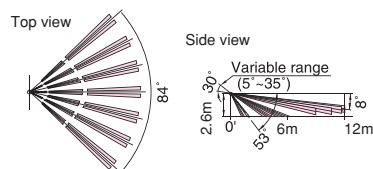
BUS-6820B

12m (40ft) wide angle

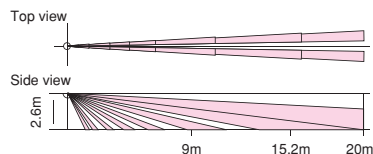
20m (66ft) vertical curtain



<BUS-6812B>



<BUS-6820B>



FEATURES

- 2 to 4.9m (6.6 to 16ft) installation height
- Ceiling mount design
- Geared mirror array for precise area definition
- Detachable base unit with snap-in/out sensor design
- Slim and compact 47mm (1.85") profile

Only for BUSNET

Detection System	Passive infrared (Twin)
Transmission signal	Normal status signal, Alarm signal, Low power supply signal
Supply Voltage	9 to 30V DC (polarity)
Current Consumption	20mA Max
Features	• Alarm memory • Pulse count selectable
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting Position	Ceiling, Wall indoor
Optional	Ceiling / wall mount attachment
External Dimensions	125dia. x 56.5mm (4.72 dia. x 1.85")
Weight	130g (4.6oz)

Independent operation possible with a maximum of 30 terminal devices connected

Set addresses from 1 to 255 using the terminal device switch. Following this, complete registrations and settings on the controller side. This simple procedure allows you to control and operate the independent output, the group output from 1 to 30, and/or the memory display. Operational flexibility can be maintained because all the settings can be easily changed on the controller side, regardless of any layout change in a site.

BUS-C630-3

BUS-C730-3

Connectable sensors : 30 pcs



FEATURES

- Equipped with 6 group alarm outputs and 30 address (BUS-C630-3)
- Equipped with 6 group alarm outputs and independent alarm output for 30 addresses (BUS-C730-3)

Only for BUSNET

Signal transmission	Time divided multiple access transmission
Supply Voltage	10.5 to 28V DC (polarity)
Current Consumption	800mA less
Input	Arm/Disarm input (N.C./N.O. selectable)
Output	Group signal (1~6), Individual address output (1~30: C730 only) Loop failure, System failure, Tamper Dry contact N.C./N.O. selectable : 30V (AC/DC) 0.25A
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting position	Indoor
External Dimensions-WHD	240 x 340 x 54 mm (9.45 x 13.39 x 2.13")
Weight - C630/C730	1.4kg (49.4oz) / 1.6kg (56.4oz)

BUS-C800

Connectable sensors : 255 pcs



FEATURES

- Equipped with 30 group outputs and 255 addresses

Only for BUSNET

Signal transmission	Time divided multiple access transmission
Supply Voltage	Number of connected sensors 1 to 30PCS: DC10.5 to 25V (polarity) Number of connected sensors 31 to 255PCS: DC20 to 28V (polarity)
Current Consumption	1000mA +[Number of sensor]x 3.5mA (Maximum 2A)
Input	Arm/Disarm input (One directional / Bi-directional switch)
Output	Arm/Disarm output, Loop signal failure, Tamper signal Environmental disorder : Dry contact output 30V (AC/DC) 0.25A N.O./N.C. selectable Alarm signal output Dry contact output N.C./N.O. selectable Group channel 1 to 30 selectable
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting position	Indoor
External Dimensions-WHD	240 x 340 x 54 mm (9.45 x 13.39 x 2.13")
Weight - C630/C730	1.6kg (56.4oz)

BUS-RT1A

Only for BUSNET



FEATURES

- Repeater only BUS-C630-2/
BUS-C730-2/BUS-C800
- Covers wider protection range since
wiring extension is available

Current consumption	150mA+[The number of sensors]x3.5mA
The number of sensors connectable	Depending on the controller
Supply Voltage	10.5 to 28V DC (polarity)
Signal transmission method	Time divided multiple access transmission
Wiring distance	Maximum distance : 1000m Total distance : 4000m when φ0.9mmAE wire used
Transmission speed	8~16m sec per unit
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting position	Indoor
External Dimensions-WHD	240 x 170 x 54 mm (9.45 x 6.69 x 2.13")
Weight	600g (21.2oz)

BUS-U1

BUS-D1

Only for BUSNET



FEATURES

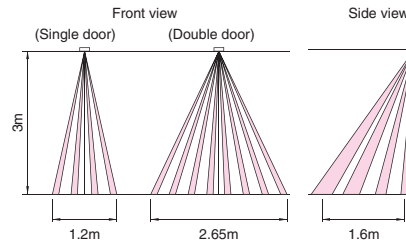
- Used to incorporate contact type
sensors, including the glass breakage
sensor and/or extension is available
magnet switch, in BUSNET (BUS-U1)
- Contact output unit for only
BUS-C630-2 / BUS-C730-2
- Outputs at terminal alarm activation
and operates a connected device
(BUS-D1)

Current consumption	11mA (U1) 20mA (D1)
Supply Voltage	9 to 30V DC (polarity)
Signal transmission method	Time divided multiple access transmission
External output	1 x Dry output contact N.C./N.O. selectable DC30V-0.25A
Ambient Temperature	-15°C to +55°C (+5°F to +131°F)
Mounting position	Indoor
External Dimensions-WHD	64 x 100 x 23 mm (2.51 x 3.94 x 0.91")
Weight	80g (2.8oz)



DA-303

3m (10ft) width at height 3m (10ft)



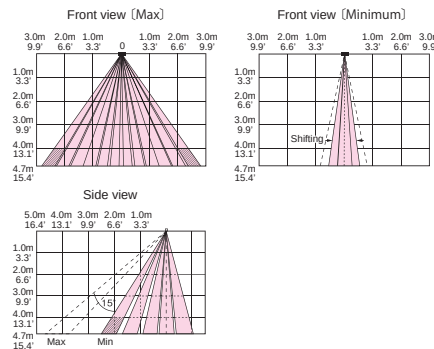
FEATURES

- Auto door sensor
- Near infrared beam type
- High-density detection pattern
- Easy to disable rows to meet any detection requirement
- Disable rows to meet any detection requirement
- Adjustable pattern width (for single/double doors)
- 4-step stationary detection (inc. infinite)
- 4 selectable channels to prevent crosstalk
- 4 selectable environment sensitivity settings
- Slim and compact 28mm (1.10") profile
- Suitable for AC/DC operation
- 5 colors model available

Detection System	Near infrared beam direct reflection
Max Installation Height	3m (10ft 10")
Area Adjustable Angle	Main body adjustable angle: 0° to +5° Depth: 1 line to 4 lines Width: Adjustable by switch
Supply Voltage	12 to 110V ±10% 50/60Hz
Current Consumption	AC100V: 2.4VA, AC12V: 1.7VA, AC24V: 1.7VA, DC12V: 40mA, DC12V: 80mA
Alarm Output	Dry contact relay N.O. 50V DC 0.1A or less
Output Holding Time	Approx. 0.5 seconds
Stationary Detection Time	2, 10, 60sec. and ∞ selectable by dip switch
Ambient Temperature	-20°C to +60°C (-4°F to +140°F)
External Dimensions - WHD	210 x 59 x 28mm (8.27 x 2.32 x 1.10")
Weight	180g (6.35oz)

DA-4700

6m (20ft) width at height 4.7m (15ft)



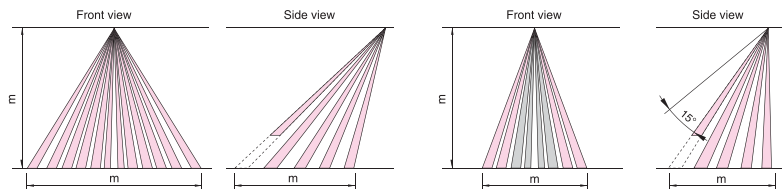
FEATURES

- Auto door sensor suitable for roller shutter
- Near infrared beam type
- High-density detection pattern
- Easy to disable rows to meet any detection requirement
- Dual detection outputs available
- Snow mode prevents malfunction due to falling snow, falling leaves, insects, etc.
- On delay function decreases useless door operation (2 sec for rows 4/5)
- Stationary detection selectable (4 pattern in 1/2/3 row, 2 patterns in 4/5 row)
- Suitable for AC/DC operation

Detection System	Near infrared beam direct reflection
Max Installation Height	4.7m (15.42ft)
Area Adjustable Angle	Main body adjustable angle: 0° to +15° Depth: 1 line Width: adjustable by area switch
Supply voltage	12 to 24V AC or DC ± 10%
Current Consumption	2.5VA for 12V AC 2.5VA for 24V AC 140mA for 12V DC 65mA for 24V DC
Alarm Output	Output 1 : Dry contact relay output N.C./N.O. (Selectable) 50V DC : 0.1A(resistive load) No.1,2,3,4,5 row detect or No.4,5 row detect sel Output 2 : Dry contact MOS relay output N.C. 50V DC : 0.1A(resistive load) Only No.1,2,3 row detect "Fail-Safe"
Output Holding Time	Approx. 0.5 seconds
Stationary Detection Time	2, 15, 60/sec, Infinity at No.1,2,3 row 2, 15/sec at No.4,5 row
Ambient Temperature	-20°C to +60°C (-4°F to +140°F)
External Dimensions - WHD	265x 61 x 37.5mm (10.43 x 2.40 x 1.48")
Weight	290g (10.2oz)

SHA-6501

6.9m (23ft) width at height 6.5m (21ft)



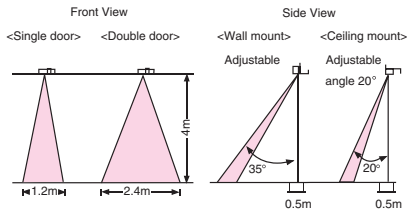
FEATURES

- Auto door sensor suitable for roller shutter
- Near infrared beam type
- High-density detection pattern
- Easy to disable rows to meet any detection requirement
- Remote controller available (optional) useful for high mounting operation
- Directional detection (4 patterns) decreases useless door operation
- Width of the detection area can be adjusted precisely by the area adjustment gears.
- Combination of stationary detection (4 patterns selectable for 2 rows near shutter) and stationary or motion detection (selectable for 3 rows outside) secure safe detection.

Detection System	Near infrared beam direct reflection
Max Installation Height	6.5m (21ft)
Area Adjustable Angle	Max 15°
Supply voltage	12 to 24VAC or DC ±10% 50/60Hz
Current Consumption	2.8VA for 12V AC 2.8VA for 24V AC 180mA for 12V DC 90mA for 24V DC
Alarm Output	① Dry contact relay output N.C./N.O. (all rows) ② Dry contact relay output N.C./N.O. (row 1.2) 50V DC 0.1A (resistive load)
Ambient Temperature	-20°C to +60°C (-4°F to +140°F)
External Dimensions - WHD	321 x 101.8 x 90.5mm (12.64 x 40.1 x 3.56")
Weight	830g (29.28oz)

PS-520E

2.4m (8ft) width at height 4m (13ft)



FEATURES

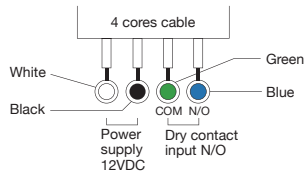
- Request-to-Exit sensor
- Passive infrared type
- Adjustable pattern width (for single/double doors)
- 2 x heavy duty relay outputs (up to 1A) for controlling door strikes and magnetic locks
- Fail safe/fail secure selectable
- Adjustable relay timer 0.25 to 60 seconds
- Dual pyro for increased external light immunity



Detection System	Passive Infrared
Alarm Output	Dry contact relay output: 2c Hold time: Adjustable approx. 0.25sec to 60sec 30V (AC/DC) 1A
Supply Voltage	12 to 24V DC
Current Consumption	40mA/DC 70mA/AC
Ambient Temperature	-10°C to +50°C (+14°F to +122°F)
Mounting Position	Wall, Ceiling (indoor)
External Dimensions - WHD	160 x 60 x 40mm (6.30 x 2.36 x 1.57")
Weight	170g 6.0oz

REQUEST-TO-EXIT
The PS-520E Request-to-Exit (REX) unit uses Passive Infrared detection, combined with adjustable mirrored optics.

AV-100E
 N.O. input for activation



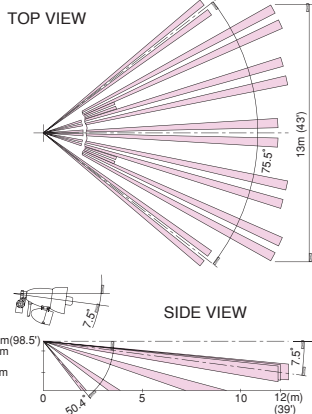
FEATURES

- Requires external trigger for activation (N.O. input)
- Record a message (12 sec) using built-in microphone
- Omni-directional bracket
- Horn speaker type
- 100dB/1m (3.3ft) max



Supply Voltage	10 to 14VDC
Current Consumption	20mA (Stand by) 500mA. Max
Sound Output	Max 100dB/2W
Alarm Input	Dry contact N.O.
Ambient Temperature	-20°C to 50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	115 x 172 x 289mm (4.53 x 6.77 x 11.38")
Weight	1.0kg (2.2lb)

PV-12
 12m (40ft) x 75°



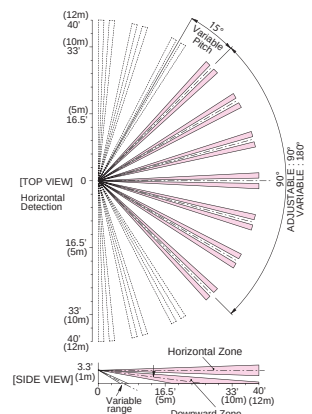
FEATURES

- Integrated PIR triggers activation
- Alarm output
- Record a message (12 sec) using built-in microphone
- Omni-directional bracket
- Horn speaker type
- 100dB/1m (3.3ft) max



Detection System	Passive infrared
Coverage Area	Wide angle protection Coverage 12m (39ft 4") max.
Supply Voltage	10 to 14VDC
Voice Output	Max 100dB/2W
Alarm Output	Dry contact relay output: 1c Reset time: approx. 8 sec 30V (AC/DC) 0.5A
Ambient Temperature	-20°C to 50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	115 x 172 x 289mm (4.53 x 6.77 x 11.38")
Weight	1.0kg (2.2lb)

PVW-12TE
 12m (40ft) x 90°



FEATURES

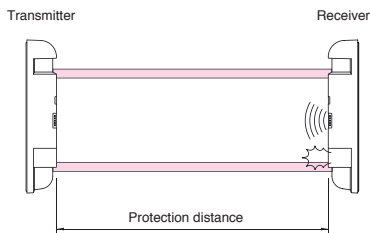
- Dual-zone detection system
- 2 recordable messages (daylight or arm/disarm)
- Built-in microphone and audio line input
- DAY/NIGHT sensing



Detection System	Passive infrared
Coverage Area	Horizontal coverage Max. detection distance 12m (39ft 4") Detection angle 90°
Supply Voltage	10 to 30V DC
Current Consumption	55mA Max. for standby 300mA Max. for operation
Alarm Output	Dry contact relay output N.C./N.O. selectable with a switch Contact capacity: 30V (AC/DC), 0.5A Max. Contact operation: One shot operation Approx. 2 sec.
Ambient Temperature	-20°C to 50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	80 x 234 x 91mm (3.15 x 9.21 x 3.58")
Weight	480g (1.0lb)

PBS-15T

15m (49ft) outdoor



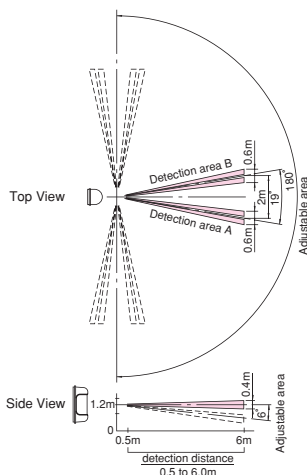
FEATURES

- 2 x synchronized high power beams
- Flashing beacon and siren upon detection (RE only)
- 4 selectable beam channels to prevent crosstalk
- DAY/NIGHT sensing
- 90dB/1m (3.3ft) max

Detection System	Simultaneous breaking of 2 beams
Alarm Output	Dry contact relay output N.C./N.O. selectable 30V AC/DC 0.5A (resistive load) Contact action: Interruption time (Min.2 sec.)
Supply Voltage	10 to 18V DC (Non-polarity)
Current Consumption	Transmitter: 24mA Receiver: 250mA
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	73 x 332 x 67.2mm (2.87 x 13.07 x 2.65")
Weight	Transmitter: 560g (19.8oz) Receiver: 620g (21.87oz)

MS-60E

6m (20ft) Direction detection



FEATURES

- Direction conscious sensor
- Rain-proof housing
- Adjustable output timer (approx. 5secs to 5min)
- Selectable day or night time operation

Detection System	Passive infrared
Alarm Output	Dry contact relay output : N.C./N.O. selectable Output time: Detection time + offdelay time (approx. 5sec. to 5 min) 30V (AC/DC) 0.5A
Supply Voltage	10.5 to 30V DC (non-polarity)
Current Consumption	40mA
Ambient temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Indoor or outdoor wall
External Dimensions - WHD	77 x 171 x 70mm (3.03 x 6.73 x 2.75")
Weight	220g (7.8oz)

NOTES

Lined area for notes.

A

AMS-10C	30
AMS-17	30
AMS-25B	30
AMS-9	30
AV-100E	36
AWS-21	30

B

BA-6SLA	8
BCW-401	19-25
BF-S3	29
BH-200	13
BL-10	13
BL-11	13
BL-5	13
BL-5000	25
BL-8400	19
BP-01	19
BP-02	19
BP-03	19
BP-100COM	15
BP-11	19
BP-12	19
BP-150AE	22
BP-200F	13
BP-22	19
BP-32	19
BP-50COM	15
BP-50MW	15
BP-50X	13-15
BP-5B	13
BP-5C	13
BP-5D	13
BP-60A	13
BP-60TE	13
BR-10	13
BR-5	13
BR-M5	19-29
BR-S3	29
BS-50F	13
BS-50XP	13
BS-S3	29
BU-50F	13
BU-5300	25
BU-6800	25
BU-7000	25
BU-8400	25
BUS-100XF	31
BUS-200XF	31
BUS-50XF	31
BUS-6612	32
BUS-6612W	32
BUS-6805B	32
BUS-6810B	32
BUS-6812B	32
BUS-6820B	32
BUS-C630-3	33
BUS-C730-3	33
BUS-C800	33
BUS-D1	33
BUS-G1200	31
BUS-RT1A	33
BUS-U1	33
BV-03	19
BW-14	19
BW-24	19
BZ-S2	29

C

COM-50XTH	14
COM-50XTL	14
COM-IN-100AH	15

D

COM-IN-100AL	15
COM-IN-50HFFH	15
COM-IN-50HFL	15

E

DA-303	34
DA-4700	34
DS-6ND	13

F

EG-2000	29
ER-02	13

G

FP-2500E	25
FS-1000E	26
FS-2000E	26
FS-3500E	26
FS-5000E	27
FS-6000E	27

H

GS-02	28
GS-02C	28
GS-1100E	28
GS-2000E	28

K

HTF-24AE	13
HTF-24E	13

M

KE-347T	28
KP-32	19

O

MG-103S	30
MG-104	30
MG-104S	30
MS-100E	19
MS-12FE	16
MS-12TE	16
MS-60E	37
MS-LENS-WHITE	19
MW-100AH	14
MW-100AL	14
MW-50H	14
MW-50L	14

P

OMS-12FE	16
PA-15WE	18
PA-30NE	18
PA-370	23
PA-450E	23
PA-450PI	23
PA-460E	24
PA-470L	24
PA-480S	24
PA-4810E	25
PA-4820E	25
PA-5312E	22
PA-5325E	22
PA-6412PI	22
PA-6612E	20
PA-6805E	20
PA-6810E	20
PA-6812E	20
PA-6820E	20
PA-7012E	21
PA-7030E	21
PA-7100E	21
PA-8410E	21
PA-8420E	21
PB-100AT-KH	6
PB-100FA	4
PB-100HFA-KH	6

PB-100ST	7
PB-100TK	7
PB-10NS	11
PB-10TNS	12
PB-200FA	4
PB-200HFA-KH	6
PB-20TE	7
PB-30SU	9
PB-30TK	7
PB-40TE	7
PB-4RNS	12
PB-4RTNS	12
PB-50FA	4
PB-50HFA-KH	6
PB-60TE	7
PB-60TK	7
PB-IN-100AT	4
PB-IN-100HFA	3
PB-IN-200HFA	3
PB-IN-50HFA	3
PB-IN-75SW	8
PBS-15T	37
PH-200SE	9
PH-600SE	9
PIR-30WE	18
PIR-50NE	18
PIR-T15AM	17
PIR-T15WE	17
PIR-T40NAM	18
PR-10B	10
PR-10BU	10
PR-10NS	11
PR-11BE	11
PR-1B	10
PR-30BE	11
PR-5B	10
PR-S3	29
PS-520E	35
PV-12	36
PVW-12TE	36
PXB-100ATC	4
PXB-100ATC-KH	6
PXB-100F	3
PXB-100HF	3
PXB-100HF-KH	5
PXB-100SW	8
PXB-200F	3
PXB-200HF	3
PXB-200HF-KH	5
PXB-50F	3
PXB-50HF	3
PXB-50HF-KH	5
PXH-100EX	9
PXH-200EX	9
PXH-400EX	9

S

SEC Circuit	13
SHA-6501	34
SH-M5	29

T

TX-114FR	16
TX-114SR	17
TX-114TR	16
TX-124R	27
TXF-125E	5
TXF-125E-KH	5

W

WO-3D	19
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TAKEX products are warranted to be free from defects in material and workmanship for 12 months from original date of shipment. Our warranty does not cover damage or failure caused by Acts of God, abuse misuse, abnormal usage, faulty installation, improper maintenance or any repairs other than those provided by TAKEX. All implied warranties with respect to TAKEX, including implied warranties for merchantability and implied warranties for fitness, are limited in duration to 12 months from original date of shipment. During the Warranty Period, TAKEX will repair or replace, at its sole option, free of charge, any defective parts returned prepaid. Please provide the model number of the products, original date of shipment and nature of difficulty being experienced. There will be charges rendered for product repairs made after our Warranty Period has expired.

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