

TAKEX

SECURITY & CONTROL







PRODUCT CATALOG



Ver.6

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PRODUCT ICON KEY

The product complies with EU safety and UK 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.	
The product complies with the limits for a class B digital device, pursuant to part 15 of the FCC rules.	
Access the full product data sheet by scanning the QR code with your mobile device.	

* Specifications and design are subject to change without prior notice.



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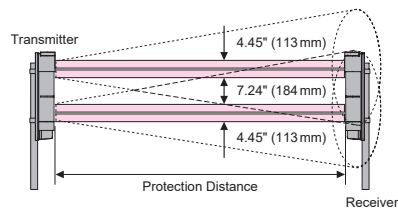
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PXB-50HF	PXB-100HF	PXB-200HF
50m (165ft) outdoor	100m (330ft) outdoor	200m (660ft) outdoor



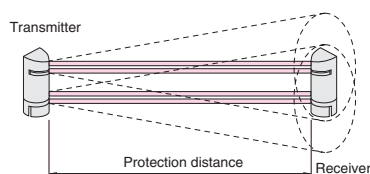
FEATURES

- 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
- Enhanced lightning and surge protection
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- Dual tone sound alignment check



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
Functions	<ul style="list-style-type: none"> • Beam power selection • Response time adjustment • Programmed AGC
Ambient Temperature	-35°C to $+66^\circ\text{C}$ (-31°F to $+151^\circ\text{F}$)
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 (52.5oz) / 1.55kg (54.30oz)

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



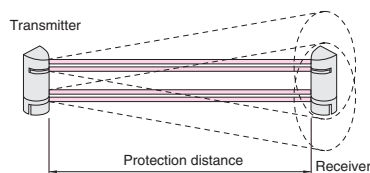
FEATURES

- 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 $\pm 10^\circ$ 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.C./N.O. 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
Functions	<ul style="list-style-type: none"> • Beam power selection • Response time adjustment • Programmed AGC • Frost proof cover
Ambient Temperature	-35°C to $+66^\circ\text{C}$ (-31°F to $+151^\circ\text{F}$)
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-50FA	PB-100FA	PB-200FA
50m (165ft) outdoor	100m (330ft) outdoor	200m (660ft) outdoor



FEATURES

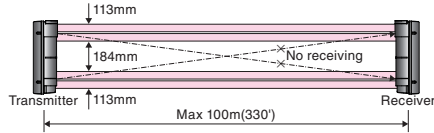
- 4 x synchronized high power beams
- Double modulation for unsurpassed light immunity
- Vivid internal color body stickers aid beam adjustment procedure
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 10^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity



Detection System	Near infrared pulsed beam interruption system (TR-RE 4 beam simultaneous interruption)
Alarm Output	Dry contact relay output N.C./N.O. 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
Functions	<ul style="list-style-type: none"> • Response time adjustment • Programmed AGC • Frost proof cover
Ambient Temperature	-35°C to $+66^\circ\text{C}$ (-31°F to $+151^\circ\text{F}$)
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

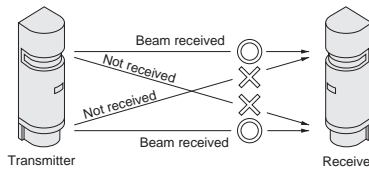
- Independent control of upper and lower beams
- Choose between synchro-quad and anti-crawl operation
- Dual outputs for crawl attempt and full beam break
- Sync wire allows stacking without crosstalk
- 4 selectable beam channels to prevent crosstalk
- Double modulation for unsurpassed light immunity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



Detection System	Near infrared pulsed beam interruption system (Anti-crawling)
Alarm Output	Dry contact relay output N.C./N.O. 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	75mA
Functions	<ul style="list-style-type: none">• Beam power selection• Response time adjustment• Programmed 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)

PB-IN-100AT

100m (330ft) outdoor



FEATURES

- Anti-crawl beam for high-security applications
- Independent control 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



Detection System	Near infrared pulsed beam interruption system (Anti-crawling)
Alarm Output	Dry contact relay output: form C 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	57mA
Functions	<ul style="list-style-type: none">• Beam power selection• Dual response time system• Programmed 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-50HF-KH

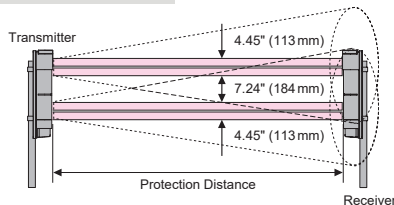
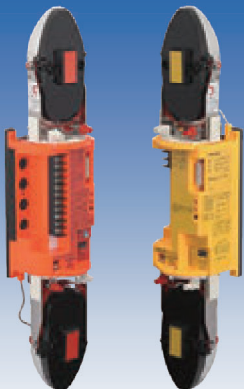
50m (165ft) outdoor

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
- Enhanced lightning and surge protection
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- Dual tone sound alignment check



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
Functions	<ul style="list-style-type: none">• Beam power selection• Response time adjustment• Programmed AGC
Ambient Temperature	-35°C to +66°C (-31°F to +151°F)

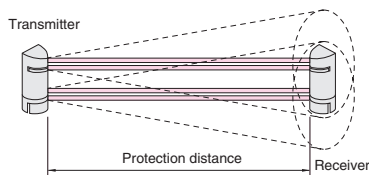
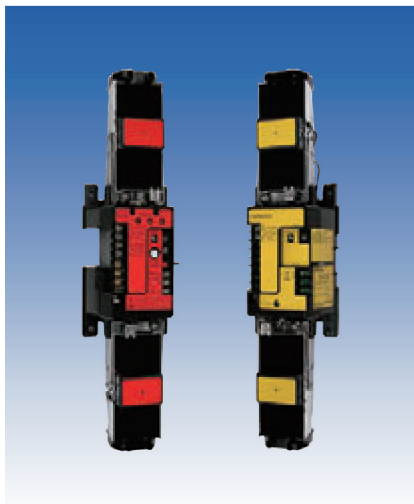
ANTI-CRAWL BEAMS

For the highest security applications, such as Prisons, Military Compounds, Nuclear facilities, or any other high risk sites, where protection is paramount.

TOWER BEAMS

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

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



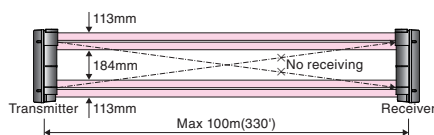
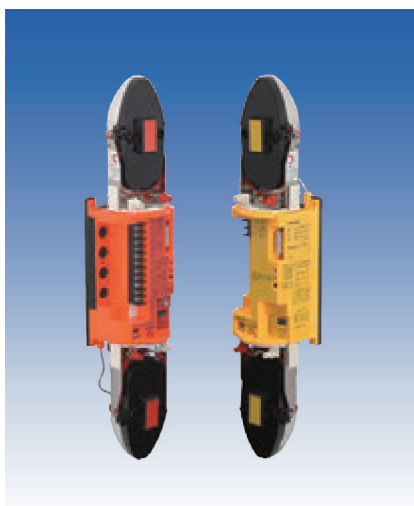
FEATURES

- 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.C./N.O. 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
Functions	<ul style="list-style-type: none"> • Beam power selection • Response time adjustment • Programmed AGC
Ambient Temperature	-35°C to +66°C (-31°F to +151°F)

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



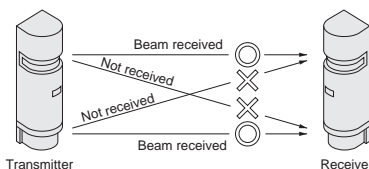
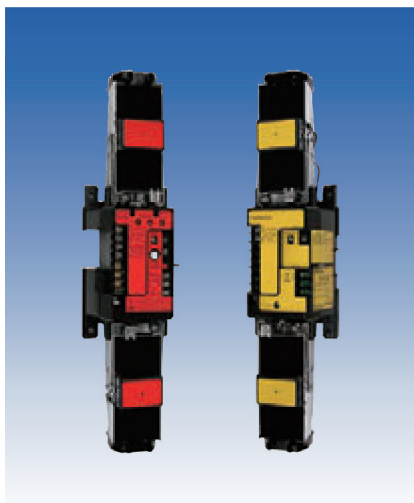
FEATURES

- 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
- Enhanced lightning and surge protection
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity
- Dual tone sound alignment check



Detection System	Near infrared pulsed beam interruption system (Anti-crawling)
Alarm Output	Dry contact relay output N.C./N.O. 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	75mA
Functions	<ul style="list-style-type: none"> • Beam power selection • Response time adjustment • Programmed 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 control 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

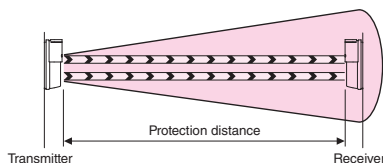


Detection System	Near infrared pulsed beam interruption system (Anti-crawling)
Alarm Output	Dry contact relay output: form C Reset time: Detection time + delay time (approx. 1.5sec) 30V (AC/DC) 0.25A Max
Supply Voltage	12 to 30V DC (non-polarity)
Current Consumption	57mA
Functions	<ul style="list-style-type: none"> • Beam power selection • Dual response time system • Programmed AGC
Ambient Temperature	-35°C to +66°C (-31°F to +151°F)

PB-60TX

30m(100ft)

60m(330ft)

**FEATURES**

- 2 selectable operation ranges (30 / 60m)
- 2 x synchronized high power beams
- 4 selectable beam channels to prevent crosstalk
- Double modulation for increased light immunity
- Alarm output mode selectable (Standard / Real time)
- Dual tone sound alignment check
- Vivid internal color aids beam alignment procedure
- $\pm 95^\circ$ horizontal $\pm 10^\circ$ vertical adjustable
- 50,000 lux sunlight immunity

Detection System	Near infrared pulsed beam interruption system (TR-RE 2 beam simultaneous interruption)
Alarm Output	Dry contact relay output N.C./N.O. selectable 30V (AC/DC) 0.25A Max (resistive load) Standard: Interruption time+2sec Real time: Interruption time
Supply Voltage	10 to 28V DC (non-polarity)
Current Consumption	37mA Max
Ambient Temperature	-25°C to +60°C (-13° F to +140° F)
Functions	<ul style="list-style-type: none"> • Response time adjustment • Programmed AGC • Drip proof housing
IP Rating	55
Optional	Pole attachment, Pole cover Anti bird spike
External Dimensions - WHD	80 x 200 x 72mm (3.14 x 7.87 x 2.83")
Weight - TR/RE	380g (13.1oz) / 400g (14.1oz)

PB-20TE

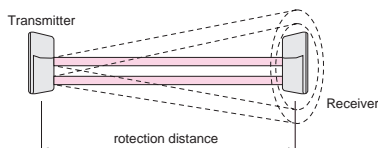
20m (66ft) outdoor

PB-40TE

40m (135ft) outdoor

PB-60TE

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

Detection System	Near infrared (through type)
Alarm Output	Dry contact relay output: form C Reset time: Detection time + delay time (approx. 1 - 3sec) 30V (AC/DC) 0.5 A Max
Supply Voltage	12 to 30V DC (non-polarity)
Current Consumption	55mA to 80mA
Functions	<ul style="list-style-type: none"> • Response time adjustment • Auto-gain control (AGC) • 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

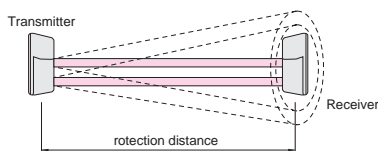
30m (100ft) outdoor

PB-60TK

60m (200ft) outdoor

PB-100TK

100m (330ft) outdoor

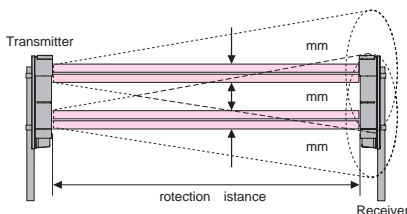
**FEATURES**

- 2 x synchronized high power beams
- 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

Detection System	Near infrared (through type)
Alarm Output	Dry contact relay output: form C 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
Functions	<ul style="list-style-type: none"> • Response time adjustment • Auto-gain control (AGC) • 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)

TXF-125DM

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



FEATURES

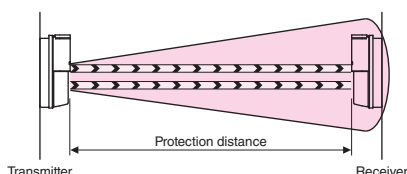
- 4 x synchronized high power beams
- 4 Selectable operation ranges (25/50/75/100m)
- 4 Selectable beam channels to prevent crosstalk
- Double modulation
- Up to 3 years battery life using LS33600(3.6V 17Ah) : (TX:4pcs, RX:2pcs)
- Increased beam separation minimizes nuisance alarms
- Vivid internal color aids beam alignment procedure
- Environmental monitoring circuit
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads
- Optional accessories available:
 - Extension cable (for use in tower enclosures)
 - Power Converter Unit TR/RE (for wired operation)
- Dual tone sound alignment check



Detection System	Near infrared pulsed beam interruption system (TR-RE 4 beam simultaneous interruption)
Alarm Output	Solid state switch: form C DC 3.6V 0.01A (resistive load)
Supply Voltage	3.6V DC (SAFT LS33600 recommended)
Current Consumption	When armed Transmitter : Approx. 1.130μA Receiver : Approx. 520μA
Functions	<ul style="list-style-type: none"> • Response time adjustment • Low battery indication • Battery saving • Repeat output
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)
Optional	Pole cover, Anti-bird spike
External Dimensions - WHD	114 x 450 x 135mm (4.49 x 17.72 x 5.31")
IP Rating	65
Weight - TR/RE	1.35kg (47.3oz) / 1.35kg(47.3oz) (excluding batteries)

TXF-20TDM

20m (66ft) Outdoor



FEATURES

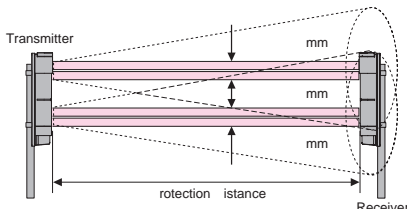
- 2 x Synchronized high power beams
- Double modulation
- 4 Selectable beam channels to prevent crosstalk
- Up to 3 years battery life using LS33600 (3.6V 17Ah) : (TX:2pcs, RX:2pcs)
- $\pm 95^\circ$ horizontal / $\pm 10^\circ$ vertical adjustment
- Compatible with numerous wireless transmitter units
- Dual tone sound alignment check



Detection System	Near infrared pulsed beam interruption system (TR-RE 2 beam simultaneous interruption)
Alarm Output	Solid state switch: from C Alarm / Low battery / Tamper
Supply Voltage	3.6V DC 0.01A (resistive load) 3.6V DC (SAFT LS33600 recommended)
Power Output	3.0 to 3.6V DC 65mA max. (2 x new batteries)
Current Consumption	When armed Transmitter : Approx. 670μA Receiver : Approx. 520μA
Functions	<ul style="list-style-type: none"> • Response time adjustment • Low battery indication • Battery saving • Repeat output
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)
Optional	Pole attachment, Anti-bird spike
External dimensions - WHD	94 x 260 x 85mm (3.7 x 10.23 x 3.34")
IP Rating	55
Weight - TR/RE	500g (17.6oz) / 520g (18.3oz) (excluding batteries)

TXF-125E-KH

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



FEATURES

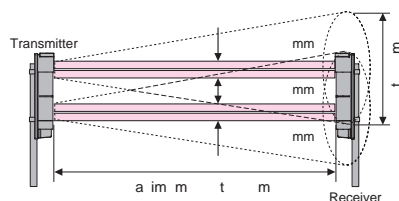
- Specifically designed for use in TA series Tower Enclosures
- 4 x synchronized high power beams
- 4 selectable operation ranges (25/50/75/100m)
- 4 selectable beam channels to prevent crosstalk
- Up to 5 year battery life using 2 x LS 33600 (3.6V 17Ah) batteries per unit
- Increased beam separation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



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 430μA Receiver : Approx 320μA
Functions	<ul style="list-style-type: none"> • Response time adjustment • Low battery indication • Battery saving • Repeat output • Battery sharing
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)

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
- Increased beam separation minimizes nuisance alarms
- Vivid internal color aids beam alignment procedure
- Enhanced lightning and surge protection
- Environmental monitoring circuit
- Dynamic auto-gain lock (AGL)
- $\pm 90^\circ$ horizontal $\pm 20^\circ$ vertical adjustable sensor heads
- Optional BA-6SLA solar panel kit available
- Dual tone sound alignment check



Detection System	Near infrared pulsed beam interruption (TR-RE 4 beam simultaneous interruption)
Alarm Output	Dry contact relay output N.C./N.O. selectable Contact action: Interruption time (Min.2 sec.) Contact capacity: 30V(AC/DC) 0.25A (resistive load) Protective resistor
Supply Voltage	5 to 8V DC or 10 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)

LOW-CURRENT BEAM

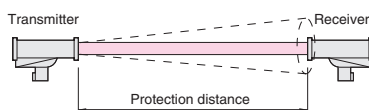
Designed specifically for low-current, low-voltage use, particularly suitable for difficult-to-cable-to sites without (or with unstable) power.

PH-200SE

200m (660ft) outdoor

PH-600SE

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

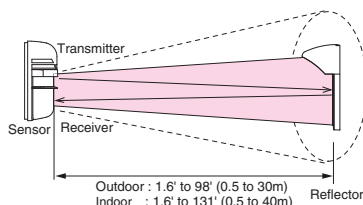
Detection System	Near infrared (pulsed beam)
Alarm Output	Dry contact relay output: N.C. Reset time: Detection time + delay time (approx. 2sec) 30V (AC/DC) 0.5A Max
Supply Voltage	10.5 to 30V DC (non-polarity)
Current Consumption	45mA (12V DC)
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting 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	(200SE) 2kg (4.4lb) / unit (600SE) 8kg (17.6lb) / unit

LONG RANGE BEAM

Designed for perimeter protection in extensive grounds with robust housing.

PR-30BE

30m (100ft) outdoor



FEATURES

- Reflection type
- Time of Flight technology
- 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
- Dual tone sound alignment check
- $\pm 90^\circ$ horizontal $\pm 5^\circ$ vertical adjustable sensor head
- Alarm output mode selectable (Standard / Real time)



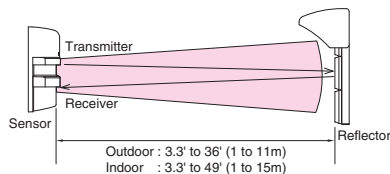
Detection System	Near infrared (reflection type)
Alarm Output	Dry contact relay output: N.C./N.O. selectable 30V (AC/DC) 0.25A Max Standard : Interruption time+2sec Real time : Interruption time
Supply Voltage	10.5 to 30V (non-polarity)
Current Consumption	200mA
Ambient Temperature	-25°C to +60°C (-13°F 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)

REFLECTIVE BEAMS

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

PR-11BE

11m (36ft) outdoor



FEATURES

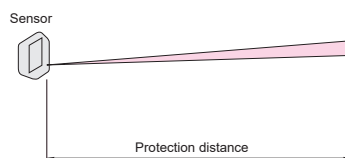
- Reflection type
- Cable only to one end: for applications where a beam break is desirable but wiring to both ends is impractical
- Suitable for both indoor and outdoor use
- Monitor jack output
- Frost-proof cover
- $\pm 90^\circ$ horizontal $\pm 10^\circ$ vertical adjustable sensor head



Detection System	Near infrared (reflection type)
Alarm Output	Dry contact relay output: N.C./N.O. 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-1B

1m (3.3ft) indoor



FEATURES

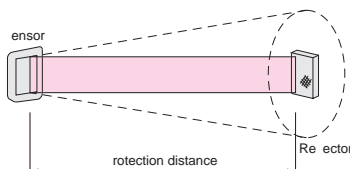
- Motionless objects can be detected
- Direct reflection system (no reflector required)
- Cable only to one end: for applications where a beam break is desirable but wiring to both ends is impractical
- Slim and compact size
- Snap off/on terminal cover for easy wiring



Detection System	Near infrared (direct reflection type)
Alarm Output	Dry contact relay output: form C 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

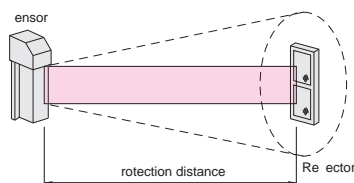


Detection System	Near infrared (reflection type)
Alarm Output	Dry contact relay output: form C Reset time: Detection time + delay time (approx. 1sec) 30V (AC/DC) 0.5A Max
Supply Voltage	10.5 to 26V DC (non-polarity)
Current Consumption	37mA
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting 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)

REFLECTIVE BEAMS

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

PR-10B	PR-10BAU
10m (33ft) indoor	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
- $\pm 90^\circ$ horizontal adjustable sensor head
- Surface mount (PR-10B) and flush mount (PR-10BAU) types available



Model	PR-10B	PR-10BAU
Detection System	Near infrared (reflection type)	
	30V (AC/DC) 0.5A	24V (AC/DC) 0.25A
Alarm Output	Dry contact relay output: N.C.	
	30V (AC/DC) 0.5A	24V (AC/DC) 0.25A
Supply Voltage (non-polarity)	10.5~15V DC	10.5~30V DC
Current Consumption	30mA or less	
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)	
Mounting Position	Indoor	
External Dimensions - WHD	62 x 157 x 62mm (2.44 x 6.18 x 2.44")	120 x 184 x 57mm (4.72 x 7.24 x 2.24")
Weight - SENS/REFL	220g(7.7oz)/ 90g(3.2oz)	450g(15.8oz)/ 90g(3.2oz)

PB-10NS
10m (33ft) indoor



FEATURES

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

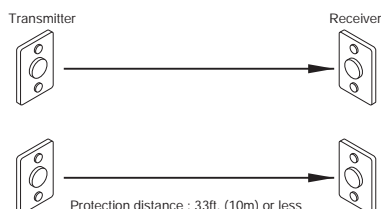


Detection System	Near infrared (through type)
Alarm Output	Dry contact relay output: N.C./N.O. selectable Reset time: Detection time + delay time (approx. 1sec.) 30V (AC/DC) 0.3A Max
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	45mA
Ambient temperature	-25°C to +55°C (-13°F to +131°F)
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)

MINIATURE BEAMS

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

PB-10TNS
10m (33ft) indoor



FEATURES

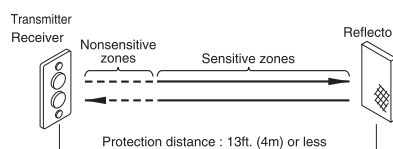
- Twin beam
- AND/OR operation mode
- Miniaturized control box
- Sensor cord can be cut to required length
- Supplied with flush mounting plates for sensor heads
- Ideal for discreet/covert/prestige applications
- Built-in sensitivity adjustment



Detection System	Near infrared (through type)
Alarm Output	Dry contact relay output: N.C./N.O. 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

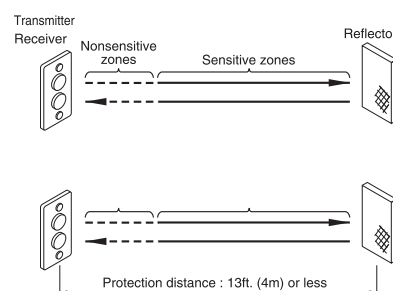
- Single beam
- Miniaturized control box
- Easy installation
- Built-in sensitivity control
- Sensor cord can be cut to required length

Detection System	Near infrared (reflection type)
Alarm Output	Dry contact relay output : N.C./N.O. 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") REF: 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

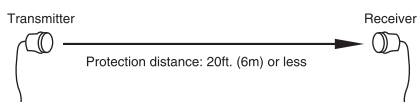
- Twin beam
- Miniaturized control box
- Easy installation
- Built-in sensitivity control
- Sensor cord can be cut to required length

Detection System	Near infrared (reflection type)
Alarm Output	Dry contact relay output : N.C./N.O. 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") REF: 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 cord can be cut to required length

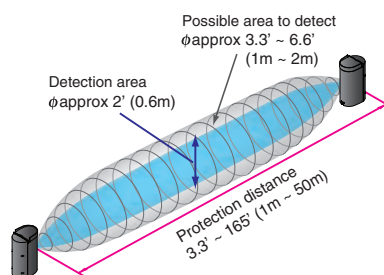
Detection System	Near infrared (through type)
Alarm Output	Dry contact relay output : N.O. Reset time: Detection time delay time (approx. 1sec.) 30V (AC/DC) 0.3A Max
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	50mA
Ambient Temperature	-25°C to +55°C (-13°F to +131°F)
Mounting Position	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)

	BH-200 Long hood For: • PH-200SE/600SE		SEC Circuit Environmental 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		BL-1130 Angle adjustable L 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		BR-5 Reflector For: • PR-5B • PR-4RNS • PR-4RTNS		BP-60A Pole attachment (Pole dia. 38-45mm) For: • PB-20/40/60TE • PB-30/60/100TK • PB-60TX • PR-11BE, PR-30BE

	BP-60TE Pole cover For: • PB-20/40/60TE • PB-30/60/100TK		BC-60TE White cover For: • PB-20/40/60TE • PB-30/60/100TK		Anti-bird spike For: • PXB-50/100/200HF • PB-60TX • TXF-125DM • TXF-20TDM
	BP-60TEX Pole cover For: • PB-60TX		BS-60TEX Pole side cover For: • PB-60TX		BP-50X Pole cover For: • PXB-50/100/200HF • TXF-125DM • PXB-100ATC • PXB-100SW • BUS-50/100/200XF
	BP-200F Pole cover For: • PB-IN-50/100/200HFA • PB-50/100/200FA • PB-IN-100AT		BS-50XP Pole side cover For: • PXB-50/100/200HF • PXB-100ATC • PXB-100SW • BUS-50/100/200XF		BS-50F Pole side cover For: • PB-IN-50/100/200HFA • PB-50/100/200FA • PB-IN-100AT

	BU-50F Flush mount housing For: • PB-IN-50/100/200HFA • PB-50/100/200FA • PB-IN-100AT		HTF-24AE 24VDC Heater kit For: • PXB-50/100/200HF • PXB-100ATC • BUS-50/100/200XF		HTF-24E 24VDC Heater kit For: • PB-IN-50/100/200HFA • PB-50/100/200FA • PB-IN-100AT
	Extension cable For: • TXF-125DM		BPC-125T Power converter unit For: • TXF-125DM transmitter		BPC-125R Power converter unit For: • TXF-125DM receiver
	KP-100 KP-150 Pole For: • 1m/1.5m		PT-AL1 PT-AL2 PT-AL3 Portable type tripod For: • 1m/2m/3m		ER-02 Wireless alignment checker For: • PXB-50/100/200HF • TXF-125DM • PXB-100ATC • PXB-100SW • BUS-50/100/200XF

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



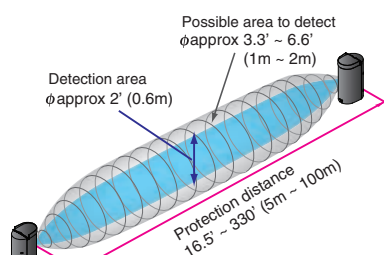
FEATURES

- 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: form C 30V (AC/DC) 0.25A Max
Supply Voltage	12 to 30V DC
Current Consumption	100mA
Functions	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	



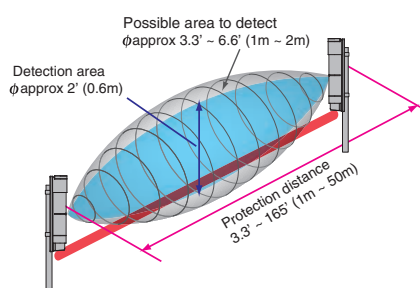
FEATURES

- 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: form C 30V (AC/DC) 0.25A Max
Supply Voltage	12 to 28V DC
Current Consumption	100mA
Functions	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 sensor
- 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 height 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-50XTH)
Alarm Output	Dry contact relay output: form C Reset time : Detection time + delay time (approx. 2sec) 30V (AC/DC) 0.25A Max
Supply Voltage	12 to 30V DC
Current Consumption	64mA
Functions	Transmission power selectable Programmed AGC Auto-gain lock
Ambient temperature	-25°C to 60°C (-13°F to 140°F)
Optional	Pole cover (BP-200X)
External Dimensions - WHD	114 x 450 x 100mm (4.49 x 17.72 x 3.94")
Weight - TR/RE	1.6g (56.0oz) / 1.7kg (57.8oz)

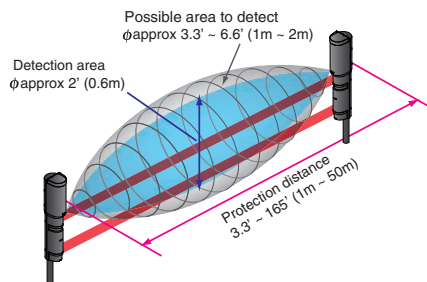




COM-IN-50HFL

COM-IN-50HFH

50m (165ft) outdoor



FEATURES

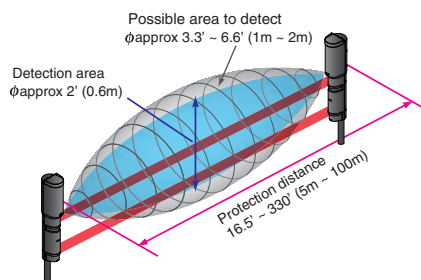
- Combination of photoelectric beam sensor and microwave sensor
- High immunity against hazardous weather such as heavy fog, snowfall or rain
- 2 frequencies (H) and (L) available for microwave
- 4 selectable beam channels for photoelectric beam
- Alarm output mode "AND" or "OR" are selectable with switch

Detection System	Photoelectric beam + Microwave
Alarm Output	Dry contact relay output N.C./N.O. selectable Reset time: Interruption time (Min. 2sec) 30V (AC/DC) 1A Max
Supply Voltage	12 to 30V DC
Current Consumption	165mA
Functions	Environmental output Auto-gain control (AGC) Monitor output
Optional	Pole cover (BP-50COM)
External Dimensions - WHD	112 x 635 x 101mm (4.39 x 24.98 x 3.98")
Weight - TR/RE	1.9kg (67.0oz) / 2kg (70.5oz)

COM-IN-100AL

COM-IN-100AH

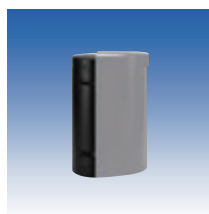
100m (330ft) outdoor



FEATURES

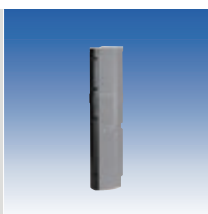
- Combination of photoelectric beam sensor and microwave sensor
- High immunity against hazardous weather such as heavy fog, snowfall or rain
- 2 frequencies (H) and (L) available for microwave
- 4 selectable beam channels for photoelectric beam
- Alarm output mode "AND" or "OR" are selectable with switch

Detection System	Photoelectric beam + Microwave
Alarm Output	Dry contact relay output N.C./N.O. selectable Reset time: Interruption time (Min. 2sec) 30V (AC/DC) 1A Max
Supply Voltage	12 to 28V DC
Current Consumption	175mA
Functions	Environmental output Auto-gain control (AGC) Monitor output
Optional	Pole cover (BP-100COM)
External Dimensions - WHD	130 x 703 x 126mm (5.11 x 27.68 x 4.96")
Weight - TR/RE	2.1kg (72.5oz) / 2.3kg (77.7oz)



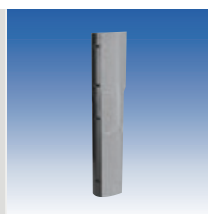
BP-50MW

Pole cover
For:
• MW-50



BP-50COM

Pole cover
For:
• COM-IN-50HF



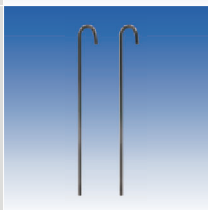
BP-100COM

Pole cover
For:
• COM-IN-100A



BP-50X

Pole cover
For:
• COM-50XT

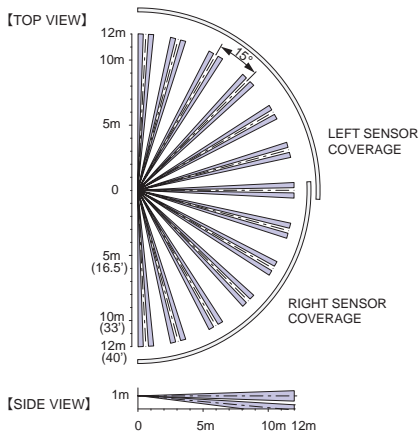


Anti-bird spike

For:
• COM-50XTL/XTH

MX-12FAM

12m(40ft) x 180°



FEATURES

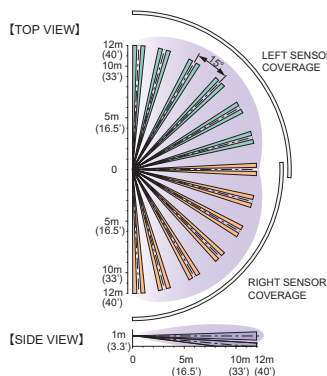
- Dual-zone detection system
- 2 to 12m (6.6 to 40ft) coverage
- Dual alarm signal outputs
- Anti-masking technology with near-lens awareness
- Front and back tampers
- Stowable area masks



Detection System	Passive infrared (Twin x 2)
Alarm Output (1)	[RIGHT+LEFT] or [RIGHT] Dry contact relay output N.C./N.O. selectable 30V (AC/DC) 0.2A Max. Detection time (+2sec)
Alarm Output (2)	[LEFT] Dry contact relay output N.C./N.O. selectable 30V (AC/DC) 0.2A Max. Detection time (+2sec)
	[EXTERNAL OUTPUT] Dry contact relay output N.O. 30V (AC/DC) 0.2A Max. Detection time (+30sec. Latch time)
Trouble Output	Dry contact relay output N.C. 30V (AC/DC) 0.2A Max.
Tamper Output	Dry contact relay output N.C. 30V (AC/DC) 0.1A Max.
Supply Voltage	9 to 28V DC (non-polarity)
Current Consumption	30mA
External Dimensions - WHD	80 x 221 x 82.5mm (3.15 x 8.7 x 3.25")
IP Rating	55
Weight	350g (12.4oz)

MX-12FAMD

12m(40ft) x 180°



FEATURES

- Dual technology (PIR + MW)
- Dual-zone detection system
- 2 to 12m (6.6 to 40ft) coverage
- Dual alarm signal outputs
- Anti-masking technology with near-lens awareness
- Adjustable anti-masking level
- Front and back tampers
- Stowable area masks



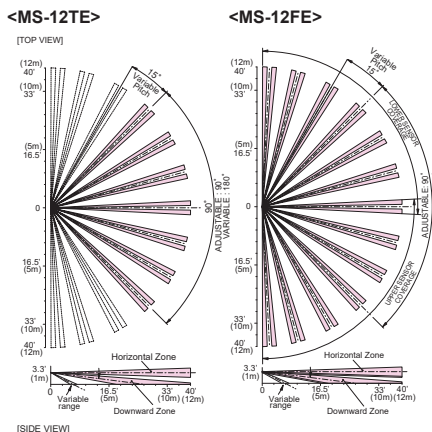
Detection System	Passive infrared & Microwave
MW Frequency/Power	24.15 to 24.25GHz 12.7dBm e.i.r.p.
Alarm Output (1)	[RIGHT+LEFT] or [RIGHT] Dry contact relay output N.C./N.O. selectable 30V (AC/DC) 0.2A Max. Detection time (+2sec)
Alarm Output (2)	[LEFT] Dry contact relay output N.C./N.O. selectable 30V (AC/DC) 0.2A Max. Detection time (+2sec)
	[EXTERNAL OUTPUT] Dry contact relay output N.O. 30V (AC/DC) 0.2A Max. Detection time (+30sec. Latch time)
Trouble Output	Dry contact relay output N.C. 30V (AC/DC) 0.2A Max.
Tamper Output	Dry contact relay output N.C. 30V (AC/DC) 0.1A Max.
Supply Voltage	9 to 28V DC (non-polarity)
Current Consumption	40mA
External Dimensions - WHD	80 x 221 x 82.5mm (3.15 x 8.7 x 3.25")
IP Rating	55
Weight	400g (14.2oz)

MS-12TE

12m (40ft) x 90°

MS-12FE

12m (40ft) x 180°



FEATURES

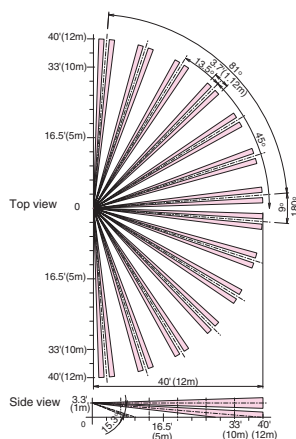
- Dual-zone detection system
- 2 to 12m (6.6 to 40ft) coverage
- Rotating sensor heads (±90° horizontal adjustment)
- AND/OR detection modes (MS-12FE only)



Model	MS-12TE	MS-12FE
Detection System	Passive infrared	Twin x 2
Alarm Output	Dry contact relay output: N.C./N.O. selectable 30V (AC/DC) 0.25A Max Reset time: approx 2sec.	
Supply Voltage	12 to 28V 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 tampers

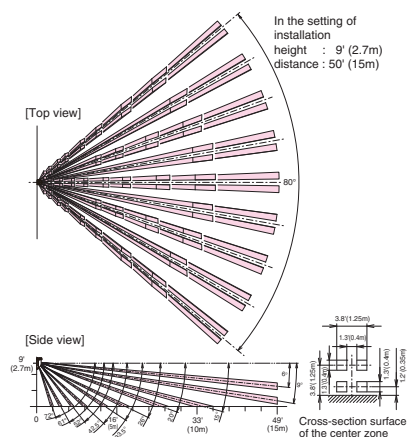


Detection System	Passive infrared (Twin x 2)
Alarm Output	Dry contact relay output N.C./N.O. selectable • Contact capacity: 30V AC/DC 0.2A MAX. (Resistive load) • Contact operation: Detection time (2sec)
Tamper Output	Dry contact relay output N.C. Contact capacity: 30V (AC/DC), 0.1A MAX. (Resistive load)
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)

DUAL-ZONE PIR OUTDOOR
Both a horizontal curtain and a downward curtain need to be activated simultaneously for an alarm. Perfect for use in both domestic and industrial applications.

PIR-T15AM

15m (49ft) x 80°



FEATURES

- High performance 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
- Precise LED detection area adjustment function

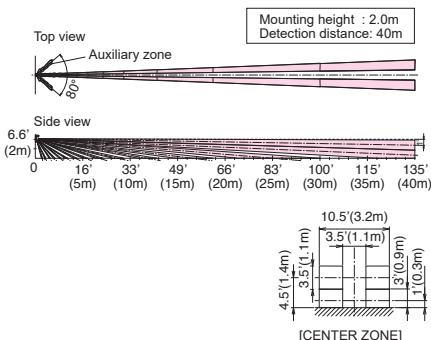


Detection System	Passive infrared (Triple mirror)
Alarm Output	Dry contact (semi-conductor) output N.C./N.O. 24V (AC/DC) 0.25A (resistive load)
Supply Voltage	9 to 28V DC (non-polarity)
Current Consumption	50mA
Functions	• External output • Low voltage monitoring • Back tamper • Anti-masking
Ambient 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

- High performance 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
- Precise LED detection area adjustment function



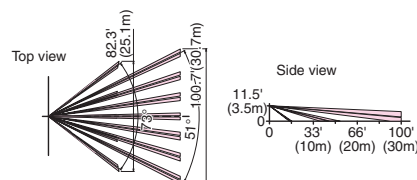
Detection System	Passive infrared (Triple mirror)
Alarm Output	Dry contact (semi-conductor) output N.C./N.O. selectable 24V (AC/DC) 0.25A (resistive load)
Supply Voltage	9 to 28V DC (non-polarity)
Current Consumption	50mA
Functions	• External output • Low voltage monitoring • Back tamper • Anti-masking
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.

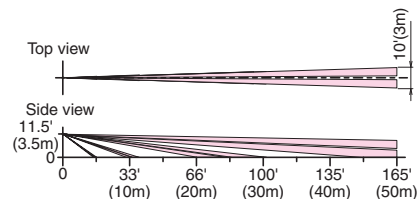
PIR-30WE	PIR-50NE
30m (100ft) wide angle	50m (165ft) vertical curtain



<PIR-30WE>



<PIR-50NE>



FEATURES

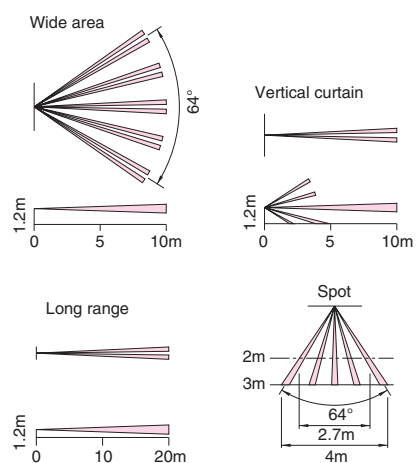
- High quality mirrored optics coupled with twin pyros
- Installation height 2 to 3.5m (6.6 to 11.5ft)
- Durable weatherproof AES resin housing
- Protective hood to deflect rain/sunlight and guard against wildlife

Detection System	Passive infrared
Alarm Output	Dry contact (semi-conductor) output: form C 24V (AC/DC) 0.25A (resistive load)
Supply Voltage	9 to 30V DC (non-polarity)
Current Consumption	35mA
Functions	<ul style="list-style-type: none"> • 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)



MULTI-PATTERN PIR OUTDOOR
MS-100E offers the choice of wide angle, vertical and horizontal curtain, or long range detection from within a single discreet housing.

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")
Weight	220g (7.8oz)

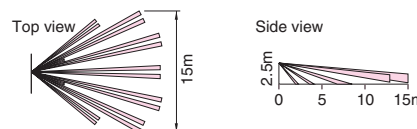


MEDIUM RANGE PIR OUTDOOR
For internal and external applications and featuring a unique bracket arrangement that allows for wall or ceiling mounting, orientated in any direction.

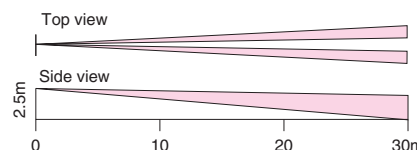
PA-15WE	PA-30NE
15m (50ft) wide angle	30m (100ft) long range



<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

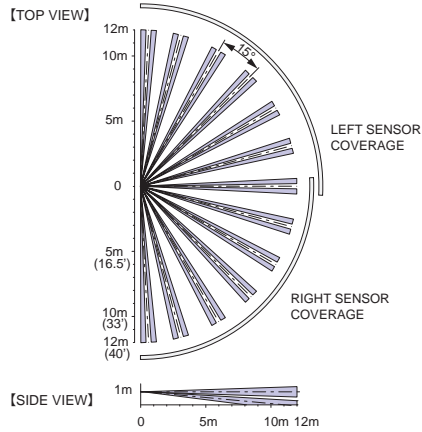


Detection System	Passive infrared (Twin)
Alarm Output	Dry contact relay output: form C Reset time: approx 2sec. 30V (AC/DC) 0.5A Max
Supply Voltage	10.5 to 30V DC (non-polarity)
Current Consumption	25mA
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
Optional	Pole attachment, Vice attachment
External Dimensions	112 dia. x 402mm (4.41 dia. x 15.83")
Weight	500g (17.6oz)



MX-12FRAM

12m (40ft) x 180°



Detection System	Passive infrared (Twin x 2)
Alarm Output	[Detection or Anti-masking] N.C./N.O/ selectable
Trouble Output	N.C.
Tamper Output	N.C.
Supply Voltage	3V DC (CR123A)
Functions	<ul style="list-style-type: none"> Self-diagnosis Low battery alarm
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)
External Dimensions - WHD	80 x 221 x 111.5mm (3.15 x 8.7 x 4.39")
IP Rating	55
Weight	470g (16.6oz)

FEATURES

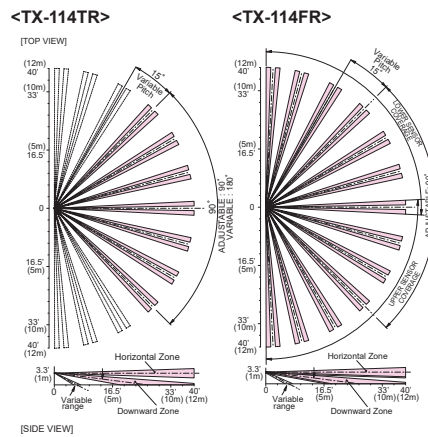
- Up to 3 year battery life using 1 x CR123A (3VDC)
- EN Grade 2
- Dual-zone detection system
- Anti-masking technology with near-lens awareness
- Front and back tampers
- Stowable area masks

TX-114TR

12m (40ft) x 90°

TX-114FR

12m (40ft) x 180°



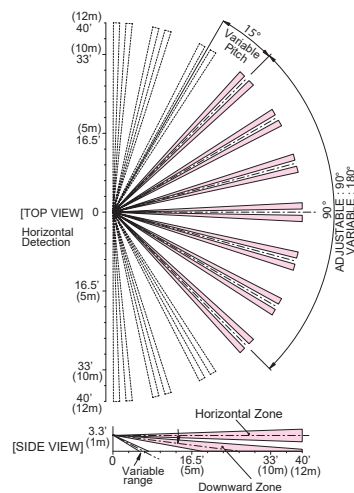
Model	TX-114TR	TX-114FR
Detection System	Passive infrared	
Operation	10VDC - 0.01A Max <ul style="list-style-type: none"> Alarm output Tamper output Trouble output 	
Supply Voltage	3V to 9V DC Alkaline or Lithium Battery	
Current Consumption	25µA	35µA
Ambient Temperature	-20°C to +50°C (44°F to +122°F)	
Mounting Position	Outdoor, Indoor	
External Dimensions - WHD	91 x 245 x 119.5mm (3.58 x 9.65 x 4.70")	
IP Rating	54	
Weight	560g (19.8oz)	620g (21.9oz)

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
- Low battery monitoring

TX-114SR

12m (40ft) x 90°



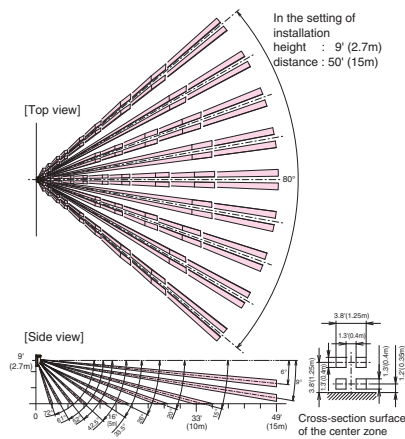
Detection System	Passive infrared: Twin
Operation	10VDC - 0.01A Max <ul style="list-style-type: none"> Alarm output (Blue wires) Tamper output (Green wires) Trouble output
Supply Voltage	3V to 9V DC Alkaline or Lithium Battery
Current Consumption	25µA
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	80 x 234 x 91mm (3.15 x 9.21 x 3.58")
IP Rating	54
Weight	400g (14.1oz)

FEATURES

- Dual-zone detection system
- 2 to 12m (6.6 to 40ft) coverage
- Rotating sensor head (±90° horizontal adjustment)
- Compatible with numerous wireless transmitter units
- Low battery monitoring

PIR-T15WR (W)/(BL)

15m (49ft) x 80°



FEATURES

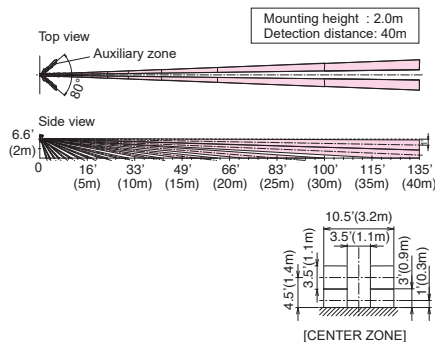
- Up to 3 year battery life using 2 x SAFT LS33600 (3.6V DC)
- High performance triple mirror optical system
- 4 operation modes:
Low Position, High Position, Pet Mode, High Density
- 2 to 6m (6.6 to 20ft) installation height
- Precise LED detection area adjustment function

Detection System	Passive infrared (Triple mirror)
Operation	<ul style="list-style-type: none"> • Alarm output • Tamper output • Trouble output
Supply Voltage	3.6V DC (SAFT CR33600)
Functions	Fuzzy logic
Ambient Temperature	-20°C to +60°C (-4°F to +140°F)
External Dimensions - WHD	114 x 285.5 x 162.2mm (4.49 x 11.24 x 6.39")
IP Rating	55
Weight	Approx. 850g (30oz)



PIR-T40NR (W)/(BL)

45m (148ft) vertical curtain



FEATURES

- Up to 3 year battery life using 2 x SAFT LS33600 (3.6V DC)
- High performance triple mirror optical system
- 4 operation modes:
Low Position, High Position, Pet Mode, High Density
- 2 to 6m (6.6 to 20ft) installation height
- Precise LED detection area adjustment function

Detection System	Passive infrared (Triple mirror)
Operation	<ul style="list-style-type: none"> • Alarm output • Tamper output • Trouble output
Supply Voltage	3.6V DC (SAFT CR33600)
Functions	Fuzzy logic
Ambient Temperature	-20°C to +60°C (-4°F to +140°F)
External Dimensions - WHD	114 x 285.5 x 162.2mm (4.49 x 11.24 x 6.39")
IP Rating	55
Weight	Approx. 850g (30oz)

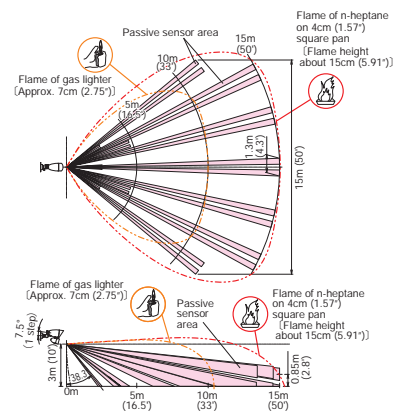


FP-5500E

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



[Flame sensor sensitivity "H"]



FEATURES

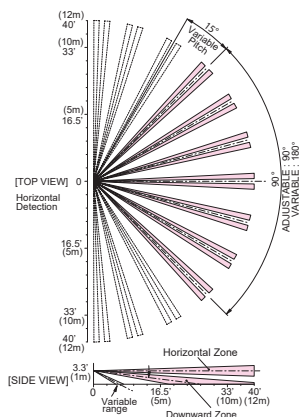
- Two output modes selectable
- Forced output operation
- Alarm memory
- Operation set-up by detection timer (Flame)



Detection System	Ultraviolet rays detection + Passive infrared
Detection Distance	Flame sensor part : 7cm (2.75") lighter flame at 10m (33ft) Passive sensor part : 15m (49ft) wide angle
Alarm Output	2 x Dry contact relay (N.C./N.O. selectable) (1 x Flame sensor, 1 x Passive sensor) 30V (AC/DC) 0.25A Max.
Supply Voltage	10 to 30V AC/DC (non-polarity)
Current Consumption	25mA Max.
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	104 x 157 x 249mm (4.09 x 6.18 x 9.80")
Weight	550g (19.4oz)

PVW-12TE

12m (40ft) x 90°



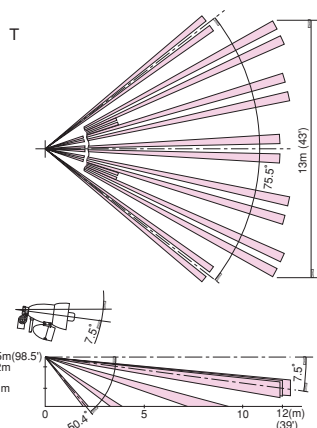
FEATURES

- 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 (40ft) 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 (16.9oz)

PV-12

12m (40ft) x 75°



FEATURES

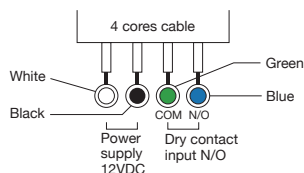
- Integrated PIR triggers activation
- Alarm output
- Record a message (12 sec) using built-in microphone
- Omni-directional bracket
- Horn speaker type
- 100dB/1m (3.3ft) max



Detection System	Passive infrared
Coverage Area	Wide angle protection Coverage 12m (39.4ft) max.
Supply Voltage	10 to 14V DC
Current Consumption	20mA (Stand by) 500mA (Max)
Voice Output	Max 100dB/2W
Alarm Output	Dry contact relay output: form C 30V (AC/DC) 0.5A Contact operation: synchronized with recording time (Min. 2 sec.)
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)

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

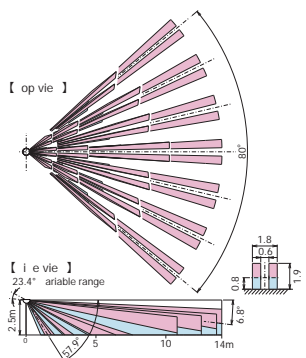


Supply Voltage	10 to 14V DC
Current Consumption	20mA (Stand by) 500mA. Max
Sound Output	Max 100dB/2W
Alarm Input	Dry contact N.O.
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Outdoor, Indoor
External Dimensions - WHD	115 x 172 x 289mm (4.53 x 6.77 x 11.38")
Weight	1.0kg (2.2lb)



PA-6614E/(BL)

14m (46ft) wide angle



FEATURES

- Unique twin mirror and two pyro system reinforced by next generation signal processing
- Up to 6m (19ft) installation height
- Ceiling mount design
- 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



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	7 to 30V DC (non-polarity)
Current Consumption	8mA
Functions	<ul style="list-style-type: none"> • Self-diagnosis • Temperature compensation
Ambient Temperature	-15°C to +55°C (-5° F to +131° F)
Mounting Position	Indoor
Optional	Ceiling/wall mount attachment
External Dimensions - WH	120 dia. x 55 mm (4.72 dia. x 2.16")
Weight	120g (4.23oz)



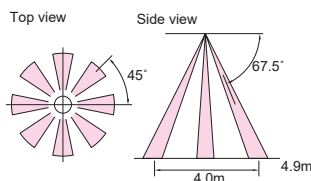
PA-6805E/(BL)

4m (13ft) spot

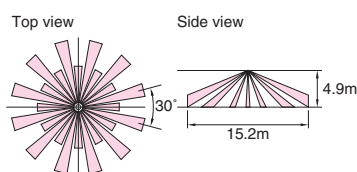
PA-6810E/(BL)

15m (50ft) x 360°

<PA-6805E>



<PA-6810E>



FEATURES

- 2 to 5m (6.6 to 16.5ft) 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	7 to 28V DC (non-polarity)
Current Consumption	11mA
Functions	<ul style="list-style-type: none"> • 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 47mm (4.72 dia. x 1.85")
Weight	110g (3.9oz)



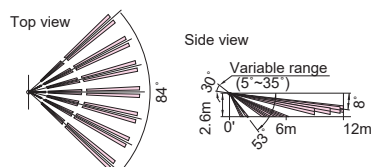
PA-6812E/(BL)

12m (40ft) wide angle

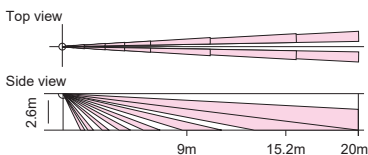
PA-6820E/(BL)

20m (66ft) vertical curtain

<PA-6812E>



<PA-6820E>



FEATURES

- 2 to 5m (6.6 to 16.5ft) 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

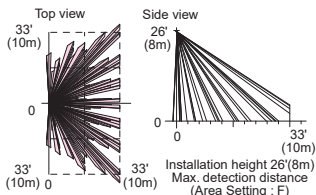


Detection System	Passive infrared (Twin)
Alarm Output	Dry contact (Semi-conductor) output: N.C./N.O. selectable Reset time: approx. 2sec. 24V (AC/DC) 0.25A Max
Supply Voltage	7 to 28V DC (non-polarity)
Current Consumption	11mA
Functions	<ul style="list-style-type: none"> • Alarm LED control • Pulse count (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 47mm (4.72 dia. x 1.85")
Weight	110g (3.9oz)

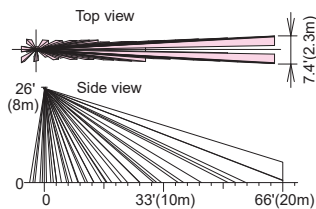
PA-8410E	PA-8420E
10m (33ft) wide angle	20m (66ft) vertical curtain



<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

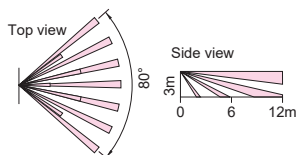
Detection System	Passive infrared (Twin x 4)
Alarm Output	Dry contact (semi-conductor) output: form C 24V (AC/DC) 0.25A (resistive load)
Supply Voltage	9 to 30V DC (non-polarity)
Current Consumption	30mA
Functions	<ul style="list-style-type: none"> • Trouble alarm • Low supply voltage alarm • Tamper 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)



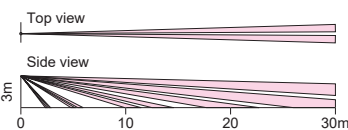
PA-7012E	PA-7030E
12m (40ft) wide angle	30m (100ft) vertical curtain



<PA-7012E>



<PA-7030E>



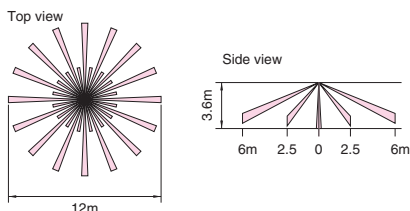
FEATURES

- 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: form C 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

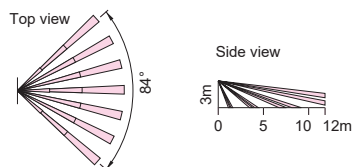
Detection System	Passive infrared (Quad)
Alarm Output	Dry contact relay output: form C Reset time: approx. 2sec. 30V (AC/DC) 0.1A Max
Supply Voltage	9 to 18V DC (non-polarity)
Current Consumption	30mA
Ambient Temperature	-10°C to +50°C (+14°F to +122°F)
Mounting Position	Indoor
Optional	Flush mount attachment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



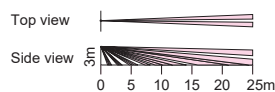
PA-5312E	PA-5325E
12m (40ft) wide angle	25m (82ft) vertical curtain



<PA-5312E>



<PA-5325E>



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
Functions	<ul style="list-style-type: none"> • 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 +55°C (+14°F to +131°F)
Mounting Position	Indoor
Optional	Flush mount attachment, Level checker
External Dimensions	147.3 dia. x 64mm (5.80 dia. x 2.50")
Weight	250g (8.8oz)

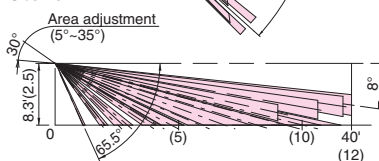


PA-6412PI
12m (40ft) wide angle



Top view

Side view



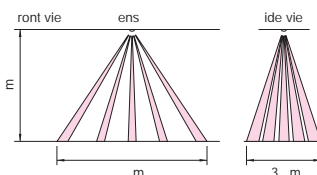
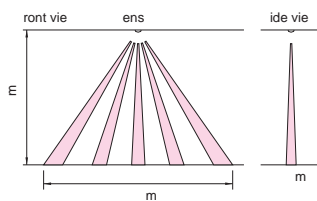
FEATURES

- 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 18V DC (non-polarity)
Current Consumption	25mA
Functions	<ul style="list-style-type: none"> • 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)

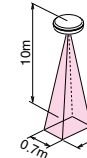


PA-370
6.7m (22ft) wide / narrow curtain



<Optional>

Lens L



FEATURES

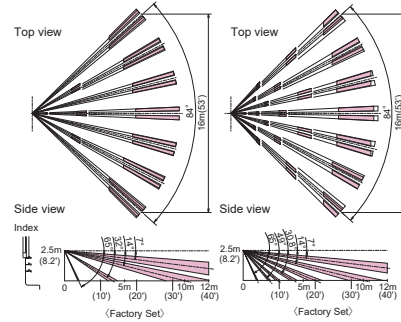
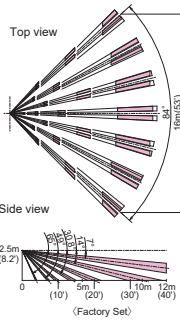
- Up to 5m mounting height
- Ceiling mount design
- Interchangeable lenses
- W lens (attached) : Vertical curtain
- M lens (supplied) : Wide
- L lens (optional) : Spot

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 28V DC (non-polarity)
Current Consumption	15mA
Functions	<ul style="list-style-type: none"> • Pulse count • LED disable switch • Low voltage alarm • Auto reset memory
Ambient Temperature	-10°C to +50°C (+14°F to +122°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-450EA**PA-450PIA**

12m (40ft) wide angle

**<PA-450EA>****<PA-450PIA>****FEATURES**

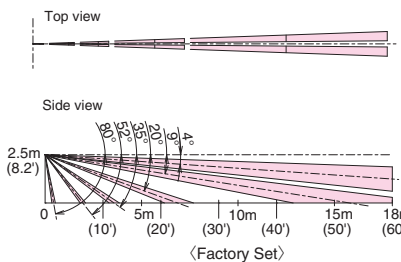
- Wall mount design
- Adjustable coverage to suit different mounting heights
- Creep zone eliminates dead-space below sensor
- Equipped with tamper and auto-reset memory
- Mode selector for easy setting adjustment
- Photo MOSFET relay for silent operation
- 20kg (44.1lb) pet immunity (PA-450PIA)



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	7 to 28V DC (non-polarity)
Current Consumption	8mA
Functions	<ul style="list-style-type: none"> • Pulse count • LED disable switch
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	90g (3.2oz)

PA-460EA

18m (60ft) vertical curtain

**FEATURES**

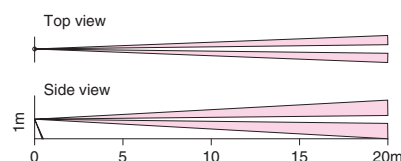
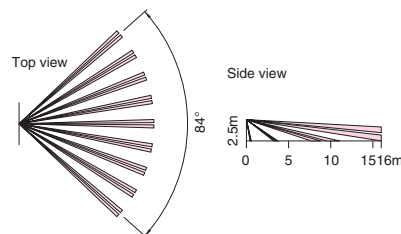
- Wall mount design
- Adjustable coverage to suit different mounting heights
- Creep zone eliminates dead-space below sensor
- Equipped with tamper and auto-reset memory
- Mode selector for easy setting adjustment
- Photo MOSFET relay for silent operation



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	7 to 28V DC (non-polarity)
Current Consumption	8mA
Functions	<ul style="list-style-type: none"> • 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	90g (3.2oz)

PA-470L

16m (52ft) wide angle / 20m (66ft) long range

**FEATURES**

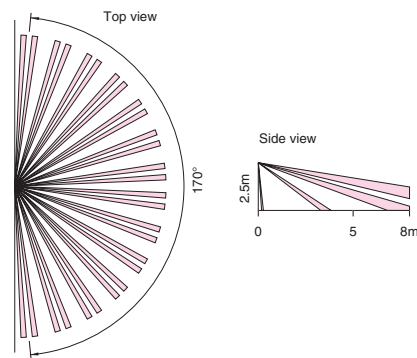
- Wall mount design
- Quad element with fuzzy logic processing system
- Pattern selectable with interchangeable lenses
- Low voltage trouble output
- Alarm memory function



Detection System	Passive infrared (Quad)
Alarm Output	Dry contact relay output: N.C./N.O. selectable Reset time: approx. 2sec. 30V DC (24V AC) 0.25A Max
Supply Voltage	9.5 to 28V DC (non-polarity)
Current Consumption	25mA
Functions	<ul style="list-style-type: none"> • 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 DC (24V AC) 0.25A Max.
Supply Voltage	9.5 to 28V DC (non-polarity)
Current Consumption	20mA
Functions	• 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)

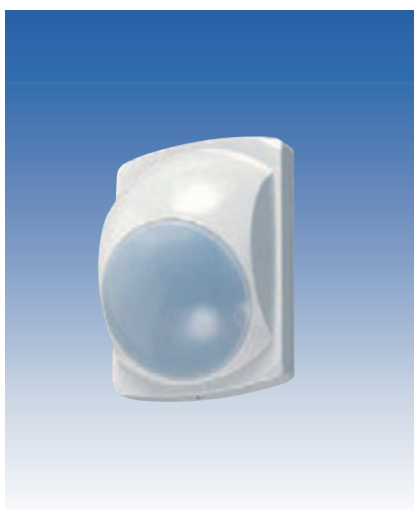


PA-4810E

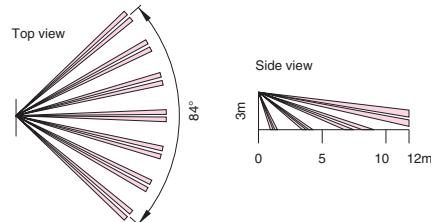
12m (40ft) wide angle

PA-4820E

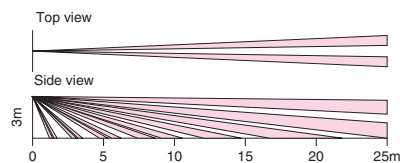
25m (82ft) vertical curtain



<PA-4810E>



<PA-4820E>



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. selectable Reset time: approx. 2sec. 30V DC (24V AC) 0.25A Max
Supply Voltage	9.5 to 28V DC (non-polarity)
Current Consumption	25mA
Functions	• 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)

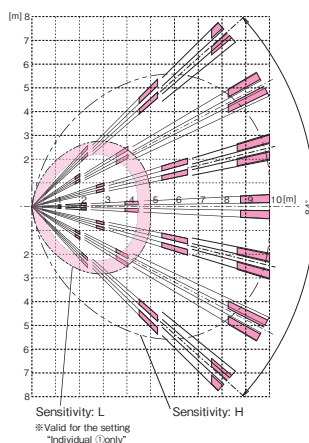


FP-2500E

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
Detection Distance	• Flame sensor part : 7cm (2.75") lighter flame at 10m (33ft) • Passive sensor part : 10m (33ft) wide angle
Alarm Output	2 x Dry contact relay (N.C./N.O. selectable) (1 x Flame sensor, 1 x Passive sensor) 30V (AC/DC) 0.25A Max.
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	20mA Max.
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 55 mm (2.70 x 4.33 x 2.17")
Weight	120g (4.23oz)

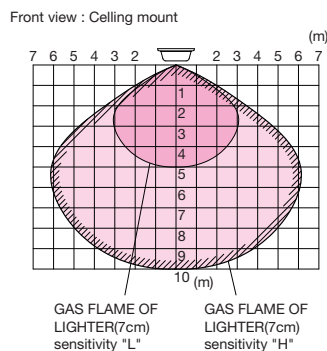
	BCW-401 Ceiling/wall attachment For: • MS-100E + BW-14		BL-8400 Wall mount attachment For: • PIR-30WE/50NE • PA-8410/8420E		BP-01 Pole attachment (Pole dia. 48mm) For: • PA-15WE/30NE
	BP-02 Pole attachment (Pole dia. 40-140mm) For: • PIR-T15AM/T40NAM • PA-15WE/30NE		BP-03 Pole attachment (Pole dia. 38-140mm) For: • PIR-30WE/50NE • PA-8410E/8420E		BP-11 Pole cover For: • MS-100E
	BP-12 Pole attachment kit (Pole dia. 42-49mm) For: • MS-100E		BP-22 Pole attachment kit (Pole dia. 42-49mm) For: • MS-12TE/FE • TX-114SR		BP-32 Pole attachment clamps (Pole dia. 38-45mm) For: • OMS-12FE • TX-114TR/FR • PIR-T15AM/T40NAM • MX-12FAM/FAMD/FRAM • PIR-T15WR(W)/(BL) • PIR-T40NR(W)/(BL)

	BR-M5 Magnetic sheet For: • MS-100E + BW-14		BV-03 Vice attachment For: • PA-15WE/PA-30NE		KP-32 Ceiling attachment For: • PIR-T15AM/T40NAM + BP-22F
	BW-14 Wall mount bracket For: • MS-100E		BW-24 Wall mount bracket For: • MS-12TE/FE • TX-114SR		WO-3D Wall bracket For: • PIR-30WE/50NE + BL-8400
	MS-LENS-WHITE White lens For: • MS-12TE/FE • TX-114FR/TR • TX-114SR		Anti-bird spike For: • PIR-T15AM • PIR-T40NAM • PIR-T40NR • PIR-T15WR		

	BCW-401 Ceiling/Wall attachment For: • PA-450EA/450PIA/460EA • PA-6614E • PA-6805/6810/6812/6820E • FS-1000E/2000E/3500E • MMW-3S/3W		BCW-401(BL) Ceiling/Wall attachment For: • PA-6614E(BL) • PA-6805/6810/6812/6820E(BL) • MMW-3S(BK)/3W(BK)		BL-5000 Wall mount attachment For: • PA-6614E • 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		BU-8400 Embedding attachment For: • PA-8410/8420E		BP-150AE Anti-masking base For: • PA-6614E • PA-6805/6810/6812/6820E • FS-2000E

FS-1000E

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



FEATURES

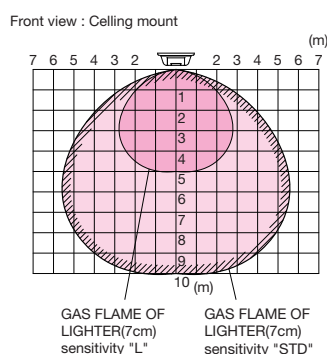
- High sensitivity ultraviolet flame sensor
- Built-in sounder
- Adjustable response time
- Battery or DC operation



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 (not included) 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)
Optional	Ceiling/wall mount attachment
External Dimensions	120 dia. x 40mm (4.72 dia. x 1.57")
Weight	200g (7.05oz)

FS-2000E

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



FEATURES

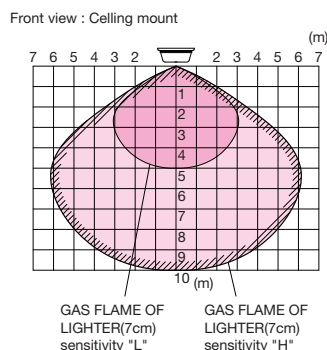
- High sensitivity ultraviolet flame sensor
- Adjustable detection area
- Built-in sounder
- Adjustable response time



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)
Optional	Ceiling/wall mount attachment
External Dimensions	120 dia. x 40mm (4.72 dia. x 1.57")
Weight	150g (5.29oz)

FS-3500E (W)/(B)

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



FEATURES

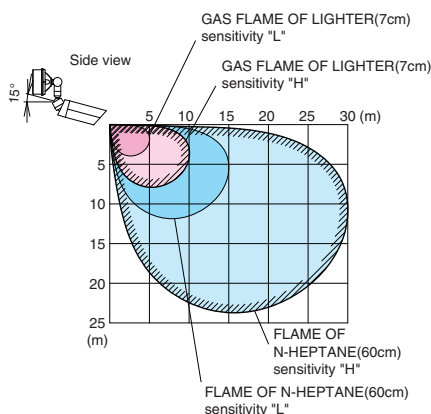
- High sensitivity ultraviolet flame sensor
- Pre-recorded flame prohibition and non-smoking messages
- Choose between long and short message options
- English, Spanish, Japanese, Chinese, Korean languages message
- 80dB/1m (3.3ft) Max
- Adjustable response time
- Battery or DC operation



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: 9mA or less Alarm: 220mA or less
Warning Message	"Japanese" "English" "Chinese" "Korean" "Spanish"
Mounting Position	Ceiling, wall (indoor)
Optional	Ceiling/wall mount attachment
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



FEATURES

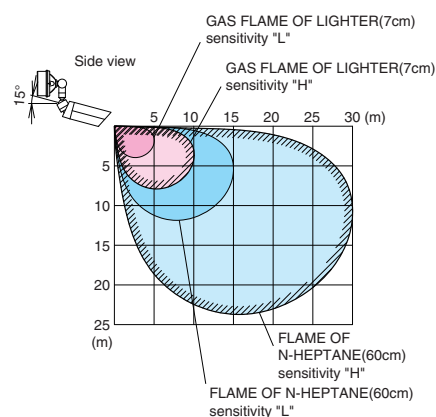
- High sensitivity ultraviolet flame sensor
- Omni-directional bracket
- Weather proof housing for indoor or outdoor use
- Adjustable response time
- DAY/NIGHT Sensing



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	112 dia. x 402mm (4.41 dia. x 15.83")
Weight	550g (19.4oz)

TX-124R

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



FEATURES

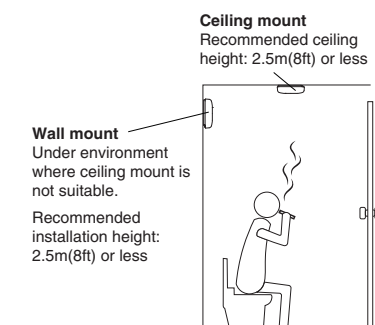
- High sensitivity ultraviolet flame sensor
- Powered by DC3V (CR-123A) battery
- Compatible with leading wireless transmitter models
- H/L sensitivity settings and 4-stage detection timer
- Omni-directional bracket
- Weather proof housing for indoor or outdoor use
- Adjustable response time

Detection System	Ultraviolet rays detection
Alarm Output	(Blue/White wires) Solid State Switch N.C 3V DC • 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: not included)
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	112 dia. x 402mm (4.41 dia. x 15.83")
Weight	510g (18.0oz)



VS-1000E

Vape Sensor



FEATURES

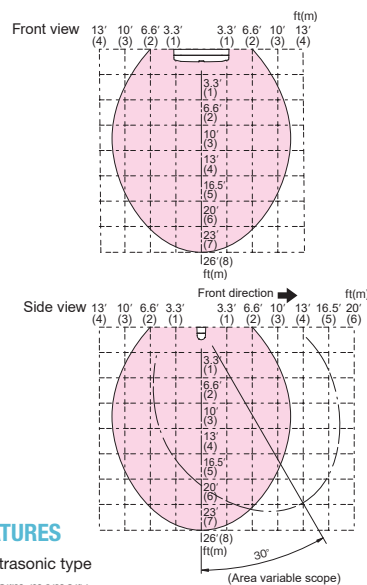
- High sensitivity particle sensor
- Built-in sounder
- Wiring communication for versatile application
- Sensitivity selectable Standard/Low
- Prevent from tampering with cover lock



Detection System	Particle concentrations detection
Alarm Output	Dry contact relay: N.O./N.C. Contact capacity: 30V (AC/DC) 0.2A
Tamper Output	Dry contact relay: N.C. Contact capacity: 30V (AC/DC) 0.1A
Supply Voltage	10.5 to 28V DC (non-polarity)
Current Consumption	85mA or less
Functions	• Self-diagnosis
Ambient temperature	0°C to +50°C (+32°F to +122°F)
Mounting Position	Ceiling, wall (indoor)
External Dimensions	137 dia. x 41mm (5.39 dia. x 1.61")
Weight	210g (7.40oz)

GS-2000E/(BL)

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

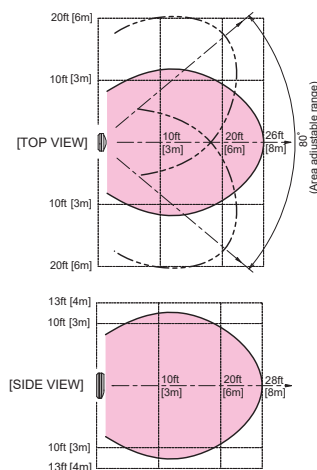
FEATURES

- Ultrasonic type
- 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) 0.25 A Max
Supply Voltage	9 to 28V 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	200 x 45 x 32mm (7.87 x 1.77 x 1.26")
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
- Glass checker EG-2000 available (Optional)

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 30V 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

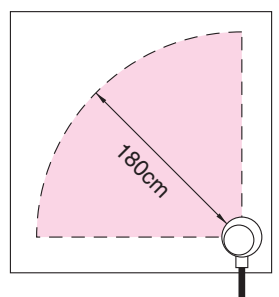
GS-02C

Straight cord

Curled cord



KE-347T



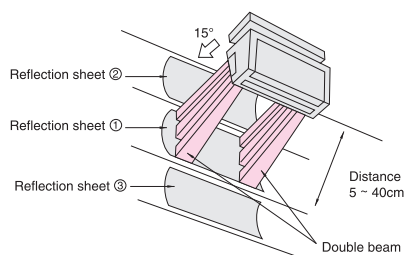
FEATURES

- 180cm (6ft) coverage radius
- Piezoelectric type
- Memory reset function
- Glass checker EG-01 available (Optional)
- Adhesive KE-347T required (Optional)

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 (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 40cm (1.3ft) indoor



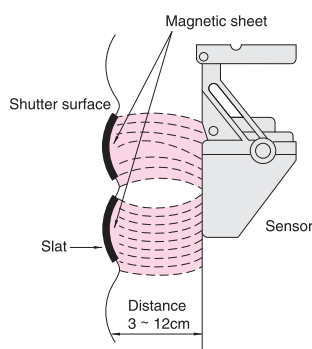
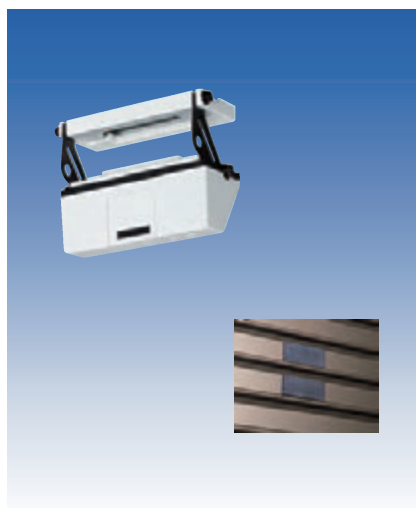
FEATURES

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

Detection System	Near infrared (reflection type)
Alarm Output	Dry contact relay output: form C Reset time: 1 to 2sec 30V (AC/DC) 0.5A Max
Supply Voltage	10 to 30V DC (non-polarity)
Current Consumption	35mA
Ambient Temperature	-25°C to +50°C (-13°F to +122°F)
Mounting Position	Shutter case, lintel (indoor)
Optional	Sensor bracket, Sheet bracket
External Dimensions - WHD	94 x 50 x 40mm (3.70 x 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: form C Response time: 1 to 2sec 30V (DC) 0.5A Max
Supply Voltage	10 to 30V (non-polarity)
Current Consumption	38mA
Ambient Temperature	-25°C to +50°C (-13°F to +122°F)
Mounting Position	Shutter (indoor)
External Dimensions - WHD	92 x 43 x 38mm (3.62 x 1.69 x 1.48")
Weight	95g (3.35oz)



EG-2000

Operation checker
For:

- GS-1100E
- GS-2000E
- BUS-G2000



EG-01

Operation checker
For:

- GS-02/02C



BF-S3

Sheet bracket
For:

- BR-S3/M5



BR-M5

Magnet sheet
For:

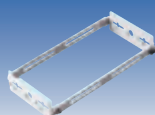
- SH-M5



BR-S3

Reflection sheet
For:

- PR-S3



BS-S3

Sensor bracket
(for over slide shutter use)
For:

- PR-S3, SH-M5



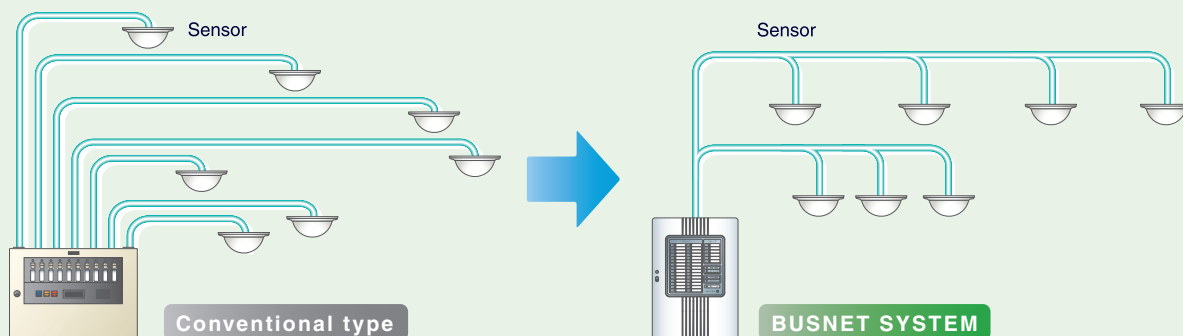
BZ-S2

Sensor bracket
For:

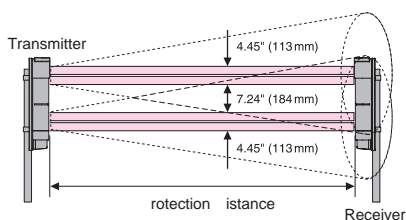
- PR-S3, SH-M5

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	BUS-100XF	BUS-200XF
50m (165ft) outdoor	100m (330ft) outdoor	200m (660ft) outdoor



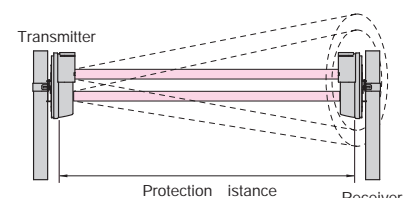
FEATURES

- 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

Only for BUSNET

Detection System	Near infrared pulsed beam interruption system (TR-RE 4 beam simultaneous interruption)
Transaction Signal	Normal status, Alarm, Environment, Tamper (Receiver only), Low power supply
Supply Voltage	10 to 30V DC (polarity)
Current Consumption	34 to 38mA when armed, 60 to 68mA Max
Functions	<ul style="list-style-type: none"> • Beam power selection • Response time adjustment
Ambient Temperature	-25°C to +60°C (-13°F to +140°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-20XT	BUS-40XT	BUS-60XT
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 surpassed light immunity
- Vivid internal color body stickers aid beam alignment procedure
- $\pm 95^\circ$ horizontal $\pm 10^\circ$ vertical adjustable sensor heads
- 50,000 lux sunlight immunity

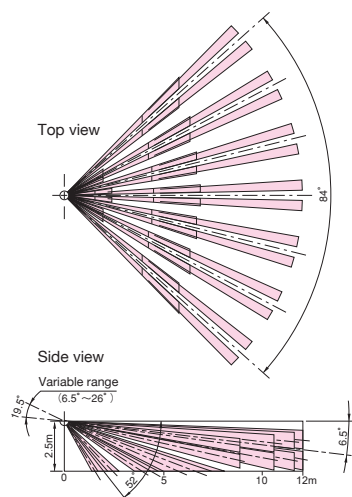
Only for BUSNET

Detection System	Near infrared pulsed beam interruption system (Double modulation)
Transmission Signal	Normal status, Alarm, Tamper (Receiver only), Low power supply
Supply Voltage	10 to 28V DC (polarity)
Current Consumption	20 to 26mA when armed 27 to 33mA Max.
Functions	<ul style="list-style-type: none"> • Response time adjustment • Sound check • Alarm memory • Monitor jack
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)
Optional	Anti-bird spike, Pole cover, Pole side cover
External Dimensions - WHD	80 x 200 x 72mm (3.15 x 7.87 x 2.83")
IP Rating	55
Weight-TR/RE	370g (13oz) / 400g (14oz)

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, Alarm, Low power supply
Supply Voltage	9 to 30V DC (polarity)
Current Consumption	20mA Max
Features	<ul style="list-style-type: none"> • 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	125 dia. x 60.5mm (4.92 dia. x 2.38") 150 dia. x 62mm (5.90 dia. x 2.44")
Weight- 6612/6612W	150g (5.3oz)

BUS-6805B/(BL)

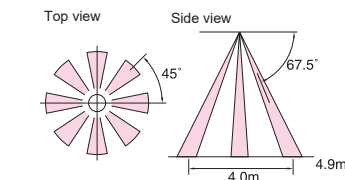
BUS-6810B/(BL)

4m (13ft) spot

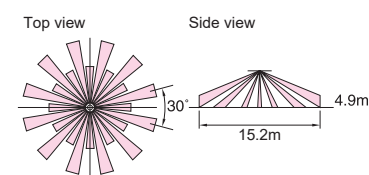
18m (59ft) x 360°



<BUS-6805B>



<BUS-6810B>



FEATURES

- 2 to 5m (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, Alarm, Low power supply
Supply Voltage	9 to 30V DC (polarity)
Current Consumption	20mA Max
Features	<ul style="list-style-type: none"> • 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	125 dia. x 56.5mm (4.92 dia. x 2.22")
Weight	130g (4.6oz)

BUS-6812B/(BL)

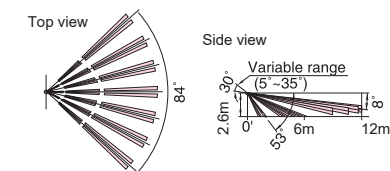
BUS-6820B/(BL)

12m (40ft) wide angle

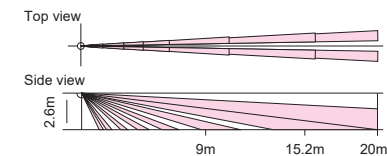
20m (66ft) vertical curtain



<BUS-6812B>



<BUS-6820B>



FEATURES

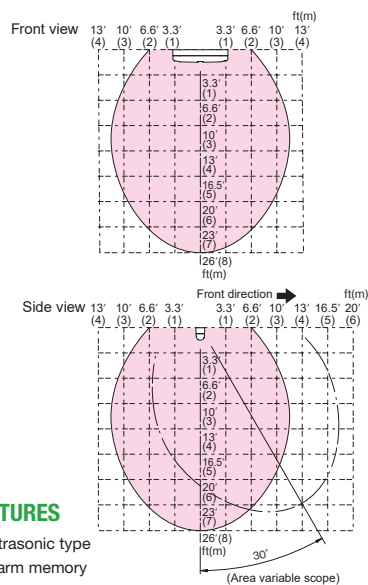
- 2 to 5m (6.6 to 16ft) installation height
- Ceiling mount design
- Geared mirror array for precise area definition
- Detachable base unit with snap-in/out sensor design
- Slim and compact 47mm (1.85") profile

Only for BUSNET

Detection System	Passive infrared (Twin)
Transmission Signal	Normal status, Alarm, Low power supply
Supply Voltage	9 to 30V DC (polarity)
Current Consumption	20mA Max
Features	<ul style="list-style-type: none"> • 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	125 dia. x 56.5mm (4.92 dia. x 2.22")
Weight	130g (4.6oz)

BUS-G2000

6m (20ft) indoor

**FEATURES**

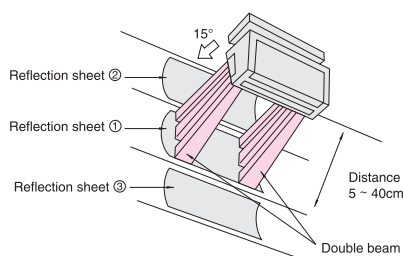
- Ultrasonic type
- Alarm memory
- Sensitivity adjustment
- Slim and compact design
- Glass checker EG-2000 available (Optional)
- Screw-less terminal block

Only for BUSNET

Detection System	Ultrasonic
Transmission Signal	Normal status, Alarm, Tamper, Low power supply, Trouble
Supply Voltage	9 to 28V DC (polarity)
Current Consumption	25mA Max.
Ambient Temperature	-15°C to +55°C (-5°F to +131°F)
Mounting Position	Ceiling, wall (indoor)
External Dimensions -WHD	200 x 45 x 32mm (7.87 x 1.77 x 1.26")
Weight	120g (4.23oz)

BUS-S3

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

**FEATURES**

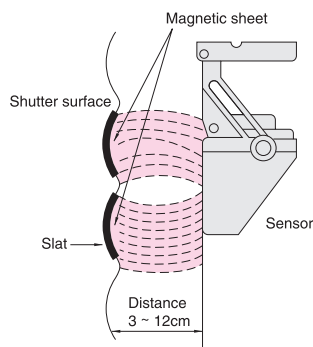
- Double beam
- Built-in operation LED output point
- Built-in attenuation LED

Only for BUSNET

Detection System	Near infrared (reflection type)
Transmission Signal	Normal status, Alarm, Trouble
Supply Voltage	10 to 30V DC (polarity)
Current Consumption	25mA Max.
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Shutter case, lintel (indoor)
External Dimensions -WHD	114 x 52 x 41mm (4.49 x 2.05 x 1.61")
Weight	140g (4.94oz)

BUS-M5

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

**FEATURES**

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

Only for BUSNET

Detection System	Magnetic modulation
Transmission Signal	Normal status, Alarm, Low power supply
Supply Voltage	10 to 30V DC (polarity)
Current Consumption	25mA Max.
Ambient Temperature	-20°C to +50°C (-4°F to +122°F)
Mounting Position	Shutter (indoor)
External Dimensions -WHD	114 x 52 x 41mm (4.49 x 2.05 x 1.61")
Weight	130g (4.59oz)

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 addresses (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 or 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 28V (polarity) Number of connected sensors 31 to 255PCS: DC20 to 28V (polarity)
Current Consumption	1100mA +[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	1.6kg (56.4oz)

BUS-RT1A

Only for BUSNET



FEATURES

- Repeater only BUS-C630-3/ BUS-C730-3/BUS-C800
- Covers wider protection range since wiring extension is available

Current Consumption	150mA+[The number of sensors]x3.5mA
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 to 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

<BUS-U1 : Input unit>

For incorporating contact type sensors into BUSNET(like wired sensor other than BUSNET connectable ones)

<BUS-D1 : Output unit>

*Only for BUS-C630-3, BUS-C730-3, BUS-C800

For taking out the contact output from the controller to activate alarm/intimidating devices connected in one BUSNET system.

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	(U1) -25°C to +60°C (-13°F to +140°F) (D1) -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)

MAGNETIC SWITCHES

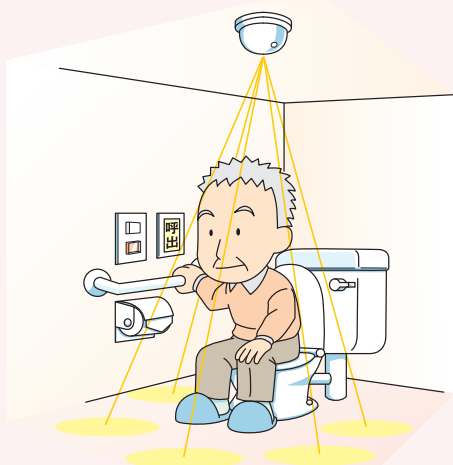
Widely used in the majority of home security systems, it is placed on windows or doors to detect when these fixtures are unwittingly opened.

MG-103S	MG-103Sa	MG-103WSb	MG-103WSa																																
Operating distance 15mm max	Operating distance 12mm max	Operating distance 18mm max	Operating distance 15mm max																																
																																			
FEATURES <ul style="list-style-type: none">• Testing hole for loop check• Removable cover with spacer, stopper	FEATURES <ul style="list-style-type: none">• Testing hole for loop check• N.O. output type	FEATURES <ul style="list-style-type: none">• Water proof for installation at watered environment such as outdoor and bathroom• Lead wire type	FEATURES <ul style="list-style-type: none">• Water proof for installation at watered environment such as outdoor and bathroom• Lead wire type• N.O. output																																
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MG-104S	AMS-9	AMS-10C																								
Operating distance 20mm	Operating distance 12mm	Operating distance 20mm																								
																										
<div>FEATURES<ul style="list-style-type: none">• Easy wiring, just only to insert wire into wiring hole, and tighten the screw with spacer, stopper</div>	<div>FEATURES<ul style="list-style-type: none">• Super miniaturized magnetic switch• Lead wire type</div>	<div>FEATURES<ul style="list-style-type: none">• Miniaturized magnetic switch• Lead wire type</div>																								
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AMS-17	AMS-25B	AWS-21																								
Operating distance 8mm	Operating distance 20mm	Operating distance 30mm																								
																										
 LISTED	 LISTED	 LISTED																								
FEATURES <ul style="list-style-type: none">• Super miniaturized magnetic switch• Lead wire type	FEATURES <ul style="list-style-type: none">• Lead wire type	FEATURES <ul style="list-style-type: none">• Magnetic switch for wide gap																								
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HEALTH CARE PRODUCTS

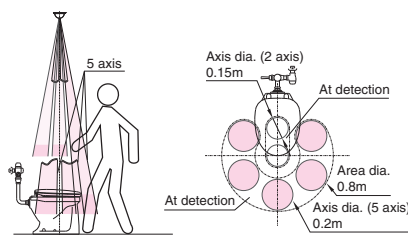


Declining birthrate and aging population has been drastically progressed and manpower such as caregivers at elderly home or welfare facility has been decreased. Saving manpower by lessening facility patrol can be realized with health care products.

Life rhythm monitoring system "TOILET SENSOR" catches the abnormal life rhythm such as long-time toilet use/unuse and notifies to carer or family members.

- ◆ Long-time use_ Detect human presence and count timer even if a user has no motion or fall down on the floor. Activate alarm when the timer count reach the preset timer.
- ◆ Long-time unuse_ Count the time the sensor is not detecting human presence. Activate alarm when the timer count reach the preset timer.

TS-7	TS-7U	TS-7R
Dome shape	Flush mount	Square shape



FEATURES

- 7 optical axis detect human presence with ToF technology
- 2 exposed type and 1 embedded type selectable
- Initial area setting can be done automatically
- Anti-interference design for multi-units installation
- Built-in power outage support mode
- Area setting selectable at 9 patterns
- Detection zone height is changed at standby or at detecting

Model	TS-7	TS-7U	TS-7R
Detection System	Near-Infrared reflection type Measure distance method		
Supply Voltage	12 to 24V DC		
Current Consumption	155mA at 12V DC		
Mounting	Ceiling at 2.5 to 3m (8.2 to 9.8ft) height		
Optical Axis Angle	Adjustable at 4 steps (0/3/6/9°)		
Area Pattern	9 patterns		
Detection Area	Optical axis 0.25m (0.8ft) each Area dia. 0.85m (2.8ft) at 2.3m (7.5ft) height		
Detection Area Return	30sec after stop detecting presence		
Initial Setting	At power ON/TS-A (remote controller) selectable		
Initial Setting Time	30sec		
Ambient Temperature	-10°C to +55°C (+14°F to +131°F)		
Appearance	ABS resin (white)		
Weight	200g (7.0oz)	350g (12.3oz)	250g (8.8oz)
External Dimensions	120dia. x 56.5mm (4.7dia. x 2.2")	156dia. x 79mm (6.1dia. x 3.1")	136dia. x 71mm (5.4dia. x 2.8")

SAH-2 (T)

Toilet safety controller



FEATURES

- Controller to inform the toilet Long-time use or Unuse
- Pre-alarm function available before the main alarm activates
- Real time output for the status of use indication built-in
- Leaving area output to notify the end of use toilet built-in
- Multi-timer pattern can be selectable

-Detection timer setting for long time use

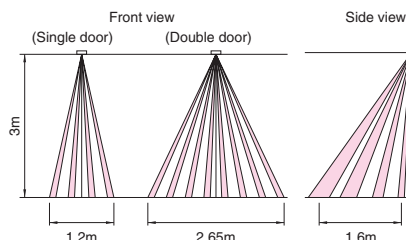
Timer setting		
0 : OFF	6 : 10min	C : 40min
1 : 15sec	7 : 12min	D : 50min
2 : 2min	8 : 15min	E : 60min
3 : 3min	9 : 20min	F : 90min
4 : 5min	A : 25min	
5 : 7min	B : 30min	

-Detection timer setting for unuse

Timer setting		
0 : OFF	6 : 6hour	C : 15hour
1 : 15sec	7 : 8hour	D : 18hour
2 : 5min	8 : 9hour	E : 20hour
3 : 5hour	9 : 10hour	F : (vacant)
4 : 3hour	A : 11hour	
5 : 5hour	B : 12hour	



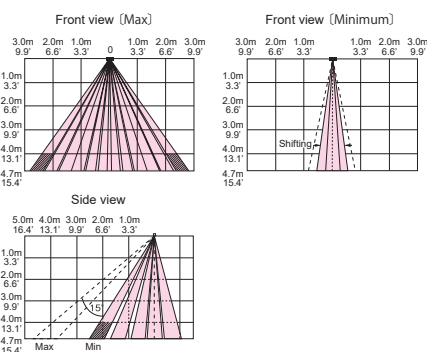
Supply Voltage	12/24V DC or 100V DC
Current Consumption	120mA
Input	Dry contact N.O.
Operation LED	① LED on at detecting presence ② LED on at non-detecting presence ③ LED blinking at pre-alarm ④ LED on at detection memory
Output	Common: Dry contact N.O. (30V 1A) Presence detection timer Non-detection timer Real time Pre-alarm (5min: ON/OFF) Leaving area
Melody For Pre-Alarm	ON/OFF selectable
Alarm Mode	3sec/Continuous changeover
Ambient Temperature	-10°C to +55°C (+14°F to +131°F)
Weight	550g (19.4oz)
External Dimensions-WHD	120 x 200 x 47mm (4.7 x 7.8 x 1.8")



FEATURES

- Auto door sensor
- Near infrared beam type
- High-density detection pattern
- Easy to 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 design
- Suitable for AC/DC operation
- 5 colors available (silver, bronze, white, black, metallic)

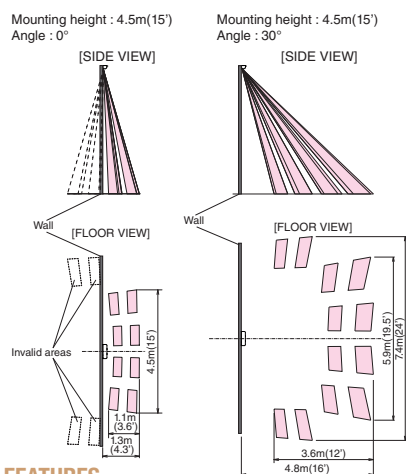
Detection System	Near infrared beam direct reflection
Max Installation Height	3m (10ft)
Area Adjustable Angle	Main body adjustable angle: 0° to +5° Depth: 1 line to 4 lines Width: Adjustable by switch
Supply Voltage	12 to 110V (AC/DC) ±10% 50/60Hz
Current Consumption	AC100V: 2.4VA, AC12V: 1.7VA, AC24V: 1.7VA, DC12V: 40mA, DC24V: 80mA
Alarm Output	Dry contact relay N.O. 50V DC 0.1A or less
Output Holding Time	Approx. 0.5sec.
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)



FEATURES

- Auto door sensor suitable for roller shutter
- Near infrared beam type
- High-density detection pattern
- Easy to disable rows for any detection requirement
- Environment mode prevents malfunction due to heavy snow, falling leaves, insects, etc.
- Stationary detection selectable (4 patterns in row 1/2/3, 2 patterns in row 4/5)
- Self-diagnosis/Interlock function
- Suitable for AC/DC operation

Detection System	Near infrared beam direct reflection
Max Installation Height	4.7m (15ft)
Area Adjustable Angle	Main body adjustable : 0° to +15° Depth : 1 line Width : adjustable by area switch
Supply Voltage	12 to 24V AC/DC ±10%
Current Consumption	12V AC: 2.5VA 24V AC: 2.5VA 12V DC: 140mA 24V AC: 65mA
Alarm Output	Dry contact relay output N.O. 50V DC 0.1A (resistive load)
Output Holding Time	Approx. 0.5sec.
Stationary Detection Time	2/10/30sec. & infinity (row 1/2/3) 2/10secs & Infinity (row 4/5)
Ambient Temperature	-20°C to +60°C (-4°F to +140°F)
External Dimensions - WHD	265 x 61 x 37.5mm (10.43 x 2.40 x 1.48")
Weight	290g (10.2oz)



FEATURES

- Request-to-Exit sensor
- 4 sensitivity selectable (Low/Middle/High/Ex-High)
- 2-way installation (wall&ceiling)
- Adjustable detection angle 0 to 30 degrees
- Fail safe/fail secure selectable
- Adjustable relay timer at 8 pattern 0 to 64 seconds
- PS-3PL mounting plate for single gang box (Optional)
- Dim. - WHD : 154 x 80 x 10mm (6.06 x 3.15 x 0.39")



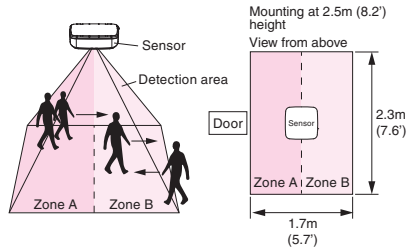
Detection System	Passive Infrared
Alarm Output	2 x Dry contact relay form C Capacity: 24V (AC/DC) 0.25A
Supply Voltage	10.5 to 28V DC (non-polarity) 12 to 24V AC (50/60Hz)
Current Consumption	40mA / DC 70mA / AC
Wiring Connection	Screwless terminal
Ambient Temperature	-10°C to +50°C (+14°F to +122°F)
Mounting Position	Wall, ceiling (indoor)
External Dimensions - WHD	152 x 39 x 45mm (5.98 x 1.54 x 1.77")
Weight	100g (3.5oz)

CS-P01

People count sensor



PEOPLE COUNT SENSOR



FEATURES

- People counting with PIR technology realize privacy protection
- Output signal for Enter/Exit separately
- Detect multi-people simultaneously up to:
6 people at 2.5m (8.2') height
9 people at 5.0m (16.4') height
- 2 mode selectable (Count/Direction discrimination)
- Less false count with two zones

Detection System	Passive infrared image analysis
Detection Area (Mode)	Standard : 1.7 x 2.3m at H. 2.5m (5.7 x 7.6' at H. 8.2') 2.7 x 3.7m at H. 5.0m (8.1 x 12.1' at H. 16.4') High position : 2.3 x 3.3m at H. 5.0m (7.6 x 11.0' at H. 16.4')
Supply Voltage	10 to 30V DC (with polarity)
Current Consumption	350mA
Output	Dry contact N.O./N.C. selectable 30V(AC/DC) 0.25A Max.
Operation Mode	Count / Direction discrimination
Functions	<ul style="list-style-type: none"> • Area check mode • Walk test mode • Buzzer for operation check • sensitivity adjustment
Ambient Temperature	0°C to +40°C (+32°F to +104°F) (without condensation)
Mounting Position	Indoor
Mounting height	2.5 to 5.0m (8.2 to 16.4')
Weight	400g (14.1oz)

MMW-3S/(BK)

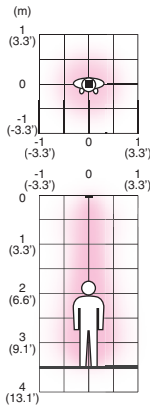
3.5m (11ft) spot

MMW-3W/(BK)

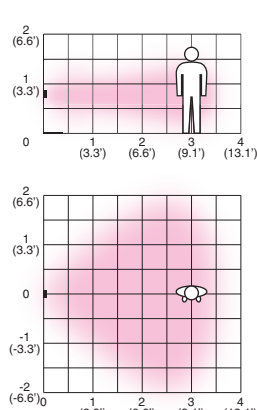
3.5m (11ft) wide angle



<MMW-3S>



<MMW-3W>



FEATURES

- Millimeter wave radar detects finest movement
- Detection distance adjustable at 16 patterns 0.2 to 3.5m (0.8 to 11.5')
- Ambient light and temperature immunity
- Human presence detection for light control/HVAC
- Overstay detection for security/safety purpose
- Touch-less switch use available
- On-delay timer adjustable at 4 patterns 0 to 30min



PRESENCE SENSOR

Detection System	Millimeter wave radar (60GHz)
Alarm Output	Dry contact relay: N.O./N.C. Capacity: 30V AC/DC 0.2A
Supply Voltage	9 to 28V DC (non-polarity)
Current Consumption	40mA or less
Features	<ul style="list-style-type: none"> • Trouble output N.C. • Tamper output N.C. • Memory LED
Ambient Temperature	-25°C to +50°C (-13°F to +122°F)
Mounting Position	Ceiling, wall (indoor)
External Dimensions - WHD	110 x 109 x 28mm (4.33 x 4.29 x 1.10")
Weight	160g (5.6oz)

Limited Warranty

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.

Please note

This sensor is designed to detect intrusion and to initiate an alarm; it is not a burglary or a crime preventing device. TAKEX is not responsible for damage, injury or losses caused by accident, theft, Acts of God (including inductive surge by lightning), abuse, misuse, abnormal usage, faulty installation or improper maintenance.

SECURITY & CONTROL PRODUCT CATALOG

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