

TAKEX

SECURITY SENSORS

TAKEX is a leading Japanese manufacturer of Security Sensors, specialising in Active Infrared Beams for Perimeter Protection, and Outdoor PIR for CCTV activation and Intruder Detection. With more than 50 years of engineering experience, we are proud to be specified at the highest level of Royal, Government and Military organisations worldwide.

QUAD BEAMS

The professional choice in outdoor protection, our Quad beam detectors synchronise 16 beam paths for maximum stability in severe weather conditions, perfect for long range perimeter protection.



PB-50F	PB-100F	PB-200F
50m outdoor / 100m indoor	100m outdoor / 200m indoor	200m outdoor / 400m indoor

- 4 x synchronised high power beams
- double modulation for unsurpassed light immunity
- auto-gain control (AGC)
- 50,000 lux sunlight immunity
- IP55 housing

PB-IN-50HF	PB-IN-100HF	PB-IN-200HF
50m outdoor / 100m indoor	100m outdoor / 200m indoor	200m outdoor / 400m indoor

- as PB-50F/100F/200F plus:
- 4 selectable beam channels to prevent crosstalk
 - environmental monitoring circuit
 - dynamic auto-gain lock (AGL)
 - vivid internal body stickers aid beam alignment procedure

PB-IN-100AT
100m outdoor / 200m indoor

- as PB-IN-100HF plus:
- anti-crawl beam for high-security applications
 - independent activation of upper or lower beams
 - dual response time system



PXB-50HF	PXB-100HF	PXB-200HF
50m outdoor / 100m indoor	100m outdoor / 200m indoor	200m outdoor / 400m indoor

- 4 x synchronised high power beams
- 4 selectable beam channels to prevent crosstalk
- increased beam separation minimises nuisance alarms
- vivid internal colour aids beam alignment procedure
- lightning and surge protection up to 15kV
- IP65 housing

When there is no room for compromise, professional installers and specifiers can rely on the enhanced features of our flagship PXB range. Coupled with the ER-02 wireless alignment tool, the integrated self diagnostic function ensures perfect alignment every time.

PXB-100ATC
100m outdoor / 200m indoor

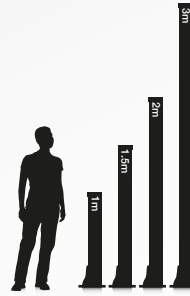
- as PXB-100HF plus:
- independent control of upper and lower beams
 - choose between synchro-quad and anti-crawl operation
 - dual outputs for crawl attempt and full beam break
 - sync wire allows unlimited stacking without crosstalk

PXB-100SW
100m outdoor / 200m indoor

- as PXB-100HF plus:
- low-current consumption for battery or solar operation
 - optional BA-6SLA solar panel/battery pack available

BEAM TOWERS

Takex Active Infrared Beams can be mounted on poles, walls, or any convenient structure. Where there is no mounting point, or for additional security (to disguise the mounting height and number of beams from observers), Takex TA Series Beam Towers are available as attractive but rugged Wall or Floor-mount units, as Single or Double-Sided variants.



TAS-100	TAS-150	TAS-200	TAS-300
1m	1.5m	2m	3m

- single sided floor mount (180 degree view)
- available in 1m, 1.5m, 2m or 3m heights
- anodized aluminium column for high resistance to oxidation
- tamper protected lid to prevent unauthorised interference
- vandal resistant polycarbonate covers

TAD-100	TAD-150	TAD-200	TAD-300
1m	1.5m	2m	3m

- as TAS series except:
- double sided floor mount (360 degree view)

TAW-100	TAW-150	TAW-200	TAW-300
1m	1.5m	2m	3m

- as TAS series except:
- single sided wall mount (180 degree view)

TAH	PTS
Heater (12-24VDC)	Thermostat

- one TAH Heater required per Beam unit (i.e. 2 per beam set)
- one PTS Thermostat required per Beam Tower

TAPS	TAFB	TAPSU2A
Anti-Climb Tamper Switch	First-Fix Bolt Set	12VDC 2A Tower PSU

- a wide range of accessories are available to suit the most demanding of requirements

KH Series Beams are designed specifically for use in our TA Series Tower Enclosures. Supplied with PTKH 'Quick fix' mounting brackets for fast, trouble-free assembly, the beam units locate in vertical slide-channels in the TA tower column, allowing easy and precise height adjustment.

PB-50HF-KH	PB-100HF-KH	PB-200HF-KH
50m outdoor / 100m indoor	100m outdoor / 200m indoor	200m outdoor / 400m indoor

- as PB-IN-50HF/100HF/200HF plus:
- specifically designed for use in TA series Tower Enclosures
 - double coated electronics for demanding environments
 - supplied with 'Quick fix' mounting brackets for easy adjustment

PB-100AT-KH
100m outdoor / 200m indoor

- as PB-100HF-KH plus:
- anti-crawl beam for high-security applications
 - independent activation of upper or lower beams
 - dual response time system

model	PB-TK SERIES			PB-TE SERIES			PB-F SERIES			PB-IN-HF SERIES			PXB-HF SERIES			PB-IN-100AT	PXB-100ATC
	30m	60m	100m	20m	40m	60m	50m	100m	200m	50m	100m	200m	50m	100m	200m	100m	100m
type	twin			twin			quad			quad			quad			anti-crawl	quad/anti-crawl
channels	1			4			1			4			4			4	4 (sync-wire)
double modulation	•			•			•			•			•			•	•
resonance filter/PLL	•/•			•/•			•/•			•/•			•/•			•/•	•/•
AGC/AGL	•/-			•/-			•/-			•/•			•/•			•/•	•/•
environmental output	-			-			-			•			•			•	•
IP rating	IP55			IP55			IP55			IP55			IP65			IP55	IP65

OUTDOOR PIR

One of the biggest concerns with using external PIR's is activations caused by animals (both wild and domestic), for this reason TAKEEX has produced the 'Dual-Zone' PIR's, combining a horizontal curtain with a downward curtain, both of which need to be activated simultaneously for an alarm. With up to 180° 12m range these sensors are perfect for use in both domestic and industrial applications



MS-12TE	MS-12FE
up to 12m x 90°	up to 12m x 180°

- dual-zone detection system
 - 2-12m coverage
- rotating sensor heads (±90° horizontal adjustment)
- selectable NO/NC relay output with 2sec-5min timer function
 - AND/OR detection modes (MS-12FE only)
 - IP54 housing

TX-114SR	TX-114TR	TX-114FR
up to 12m x 90°	up to 12m x 90°	up to 12m x 180°

- dual-zone detection system
 - 2-12m coverage
- rotating sensor heads (±90° horizontal adjustment)
- powered by 3V to 9VDC alkaline or lithium battery
- compatible with numerous wireless transmitter units

OMS-12FE

up to 12m x 180°

- dual-zone detection system
 - 3-12m coverage
 - fixed sensor heads
- supplied masking sheets allow precise area control
 - front and back tamperers
 - IP54 housing

The OMS-12FE uses our reliable dual-zone detection system to create 180 degrees of volumetric protection with a range of 3 to 12m. Equipped with 4 pyros, the detection field is divided into left and right zones which can be enabled/disabled as required for precise area control. The slim-profile housing features a back-tamper, and the clearly labelled option switches make installation a breeze.



MS-100E

up to 10m Wide Angle / 10m Curtain / 20m Long Range

- 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

Designed for outdoor and indoor use, the MS-100E offers the choice of wide angle, vertical and horizontal curtain, or long range detection from within a single discreet housing. 180° adjustable optics allow the unit to be installed in almost any position; vertically for standard detection or horizontally as a door sensor.



TWIN BEAMS

Even the simplest beams from TAKEEX feature our patented 'double modulation' technology giving them an unsurpassed immunity to sunlight and artificial light sources - ideal for protecting windows, doors, fence lines and driveways.

PB-30TK	PB-60TK	PB-100TK
30m outdoor / 60m indoor	60m outdoor / 120m indoor	100m outdoor / 200m indoor

- 2 x synchronised high power beams
- double modulation for unsurpassed light immunity
 - auto-gain control (AGC)
- 50,000 lux sunlight immunity
 - IP55 housing

PB-20TE	PB-40TE	PB-60TE
20m outdoor / 40m indoor	40m outdoor / 80m indoor	60m outdoor / 120m indoor

as PB-30TK/60TK/100TK plus:

- 4 selectable beam channels to prevent crosstalk
- vivid internal body stickers aid beam alignment procedure



OUTDOOR REFLECTOR BEAM

The PR-11B Reflector Beam is suitable for both indoor and outdoor use, for applications where a beam-break is desirable but running cable to both ends is impractical. A convenient way to monitor entrances, gateways, and driveways - for general monitoring and lighting control.

PR-11B

11m outdoor / 15m indoor

- direct reflection system
- beam direction can be rotated a full 180 degrees
- suitable for both indoor and outdoor use
 - 50,000 lux sunlight immunity
 - IP55 housing



INDOOR REFLECTOR BEAM

The single-ended nature of the PR-5B reflector beam makes it ideal for short distance monitoring across entrances and exits, corridors and staircases.



PR-5B

up to 5m indoor

- direct reflection system
- cable only to one end: for applications where a beam break is desirable but wiring to both ends is impractical
- small "pocket-calculator" sized housing for unobtrusive protection

INDOOR PIR

The PA-6800 series ceiling mount indoor PIR sensors combine a discreet compact appearance with outstanding performance at a low price. The sensor can be snapped in and out of the detachable base unit for easy installation in high places.



PA-6805E

4m Spot

PA-6810E

15m 360 degree

PA-6812E

12m Wide Angle

PA-6820E

20m Vertical Curtain

- up to 4.9m installation height
- detachable base unit with snap-in-out sensor design
- geared mirror array for precise area definition (PA-6812E/6820E)
- super slim and compact design

SPEAKER / ATTENTION SENSORS

Our speaker / attention sensors can be used to provide welcome messages at building entrances, to protect emergency doors in shopping centres, hospitals and public buildings, to deter would-be intruders in security applications or to trigger warning messages at construction sites and other hazardous areas.



AV-100E

N/O input contact for activation

- requires external trigger for activation (N/O input)
- record a message (up to 8 secs.) using built-in microphone
 - omni-directional bracket
- memory back-up for 20 days without power
- horn speaker type 100dB/1m (max)

PV-12E

12m x 75° PIR

- as AV-100E except:
 - integrated PIR triggers activation
 - alarm output

FLAME SENSORS

TAKEEX offer a range of Ultra-Violet (UV) flame detection devices for both internal and external applications. With faster detection than conventional smoke alarms, our flame sensors are practical where smoke detection is not an option, such as diesel engine rooms and open environments.



FS-1000E

10m / 7cm Flame

- high sensitivity ultraviolet flame sensor
 - built-in sounder
 - NO/NC relay output
 - adjustable response time
 - battery or DC input

FS-3500E

10m / 7cm Flame

- as FS-1000E plus:
 - Pre-recorded flame prohibition and non-smoking messages
 - Long and short message options
- 5 languages; English, Spanish, Japanese, Chinese, Korean
- 80dB/1m (max)



FS-2000E

10m / 7cm Flame

- high sensitivity ultraviolet flame sensor
 - adjustable detection area
 - built-in sounder
 - NO/NC relay output
 - adjustable response time



FS-5000E

10m / 7cm Flame

- high sensitivity ultraviolet flame sensor
 - omni-directional bracket
 - NO/NC relay output
 - adjustable response time
- weather proof housing for indoor or outdoor use

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