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.

TAKEX EUROPE LIMITED

MINIATURE BEAM

For covert/prestige applications including ATM machines, motor driven shutters, windows, and corridors.

PB-10NS
up to 10m indoor

- miniaturised control box for easy installation
- sensor cord can be cut to length as required
- supplied with flush mounting plates for sensor heads
- built-in sensitivity adjustment

TWIN BEAMS

Featuring our patented 'double modulation' technology for unsurpassed immunity to sunlight and artificial light sources, Twin Beams are ideal for protecting windows, doors, fence lines, entrances, and driveways.

PB-30TK	PB-60TK	PB-100TK
up to 30m	up to 60m	up to 100m

- 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
up to 20m	up to 40m	up to 60m

as PB-30TK/60TK/100TK, plus:
- 4 selectable beam channels to prevent crosstalk
- vivid internal body stickers aid beam alignment procedure

QUAD BEAMS

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

PB-50FA	PB-100FA	PB-200FA
up to 50m	up to 100m	up to 200m

- 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-50HFA	PB-IN-100HFA	PB-IN-200HFA
up to 50m **KH**	up to 100m **KH**	up to 200m **KH**

as PB-50FA/100FA/200FA, plus:
- 4 selectable beam channels to prevent crosstalk
- environmental monitoring circuit
- vivid internal body stickers aid beam alignment procedure

PB-IN-100AT
up to 100m **KH**

as PB-IN-100HFA, 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
up to 50m	up to 100m	up to 200m

as PB-IN-50HFA/100HFA/200HFA, plus:
- increased beam separation minimizes nuisance alarms
- vivid internal color aids beam alignment procedure
- lightning and surge protection up to 15kV
- dynamic auto-gain lock (AGL)
- ±90° horizontal ±20° vertical adjustable sensor heads
- IP65 housing

PXB-100ATC
up to 100m

as PXB-100HF, plus:
- independent control of upper and lower beams
- choose between synchro-quad and anti-crawl operation
- sync wire allows unlimited stacking without crosstalk

PXB-100SW
up to 100m

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

BATTERY BEAMS

Designed for compatibility with leading wireless systems, our Battery Beams are ideal for rapid deployment to create temporary or permanent secure perimeter intruder systems.

TXF-20TDM
up to 20m

- 2 x synchronised high power beams
- double modulation for increased light immunity
- 4 selectable beam channels to prevent crosstalk
- up to 3 year battery life using 4 x LS33600 (3.6V 17Ah) batteries
- compatible with numerous wireless transmitter units
- IP55 housing

TXF-125DM
up to 100m

- 4 x synchronised high power beams
- double modulation for increased light immunity
- 4 selectable operation ranges 25/50/75/100m
- 4 selectable beam channels to prevent crosstalk
- up to 3 year battery life using 6 x LS33600 (3.6V 17Ah) batteries
- vivid internal colour aids beam alignment procedure
- ±90° horizontal ±20° vertical adjustable sensor heads
- environmental monitoring circuit
- optional extension cables available for beam tower installation
- IP65 housing

BEAM TOWER ENCLOSURES

For additional security, or to disguise the number and position of beams from observers, our Beam Towers comprise of attractive but rugged floor or wall mounted units, with single and double-sided variants.

TAS	TAD	TAW
single sided	double sided	wall mounted

TA series Beam Towers for use with KH Beams
- available in 1m, 1.5m, 2m, and 3m heights (TA^{x}100/150/200/300)
- anodized aluminium column
- tamper protected lid to prevent unauthorised interference
- vandal resistant polycarbonate covers

KH Beams are designed for use in TA series Beam Towers **KH**

PRE-WIRED TOWERS

2m single or double-sided beam towers pre-wired and installed with heaters, thermostats, tamper switches, and mounting brackets for up to two beam units per side - simply mount your chosen KH series beams and align to create robust perimeter intruder systems with ease.

TAS2PW	TAD2PW
2m single sided	2m double sided

as TAS/TAD, plus:
- available in 2m height
- pre-wired and ready to install
- includes heaters, thermostat, tamper switch, and beam mounts
- compatible with KH series Beams (up to 2 beam units per side)

INTERFACE MODULE

With the IP interface module our photoelectric beams are as easy as IP cameras to install and integrate with Video Management Systems; start recording when somebody enters the area, move a PTZ to the location of an intrusion, or activate lighting. For use with PB-IN-HFA, PB-FA, PB-IN-100AT, & PB-KH series.

INT-QUADIP
IP interface module

- PoE Class 3 / IEEE 802.3af
- VMS compatible
- direct control of supported cameras
- plug & play web browser interface

ATTENTION SENSORS

Use to provide welcome messages, protect emergency doors, deter intruders, or to trigger warning messages.

AV-100E	PV-12E
N/O input to trigger	integrated 12m PIR

- record a message (up to 12 secs.) using built-in microphone
- omni-directional bracket
- memory back-up for 20 days without power
- horn speaker type 100dB/1m (max)

REFLECTIVE BEAMS

For applications where a beam-break is desirable but running cable to both ends is impractical. Ideal for short- distance monitoring of entrances and exits, corridors, staircases, gateways, and driveways.

PR-5B
up to 5m indoor

- direct reflection system
- cable only to one end
- for indoor use

PR-11B
up to 11m outdoor

as PR-5B, plus:
- beam direction can be rotated a full 180 degrees
- for indoor (up to 15m) and outdoor (up to 11m) use
- IP55 housing

The PR-30BE uses Time of Flight technology to measure both light reception level and timing, providing the performance of a traditional point-to-point beam sensor with the single-ended convenience of a PIR.

PR-30BE
up to 30m outdoor

as PR-11B, plus:
- Time of Flight technology to determine detecting distance
- measures light reception & timing for improved accuracy
- for indoor (up to 40m) and outdoor (up to 30m) use
- environmental monitoring circuit

FLAME SENSORS

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

FS-1000E	FS-2000E	FS-3500E
built-in sounder	built-in sounder	pre-recorded message

- high sensitivity ultraviolet flame sensor
- up to 10m detection of 7cm flame
- adjustable detection area (FS-2000E only)
- battery or DC operation (FS-1000E & FS-3500E only)
- NO/NC relay output

FS-5000E
indoor/outdoor

- high sensitivity ultraviolet flame sensor
- up to 10m detection of 7cm flame
- omni-directional bracket for detection area adjustment
- NO/NC relay output
- adjustable response time

FP-2500E
integrated 10m PIR

- combination UV flame sensor + PIR with pet immunity
- up to 10m detection of 7cm flame
- AND/OR detection modes
- dual output with forced alarm during sustained flame

FP-5500E
integrated 15m PIR

as FP-2500E, plus:
- with integrated 15m wide angle PIR
- omni-directional bracket
- for indoor and outdoor use

MULTI-PATTERN PIR

The MS-100E offers the choice of wide-angle, vertical and horizontal curtain, or long range detection within a single discreet housing. Install vertically for standard detection or horizontally as a door sensor.

MS-100E
up to 20m

- 10m Wide Angle / 10m Curtain / 20m Long Range
- 2 lenses for up to 4 different detection patterns
- 180° rotating sensor head for vertical or horizontal mount
- for indoor and outdoor use

DUAL-ZONE PIR

Dual-Zone PIR's combine a horizontal and downward curtain requiring simultaneous activation for alarm. With up to 12m x 180° 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 with small animal tolerance
- 2-12m coverage
- rotating sensor heads (±90° horizontal adjustment)
- selectable NO/NC relay output
- 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°

as MS-12TE/FE, plus:
- powered by 3V to 9VDC alkaline or lithium battery
- compatible with numerous wireless transmitter units
- back box with back-tamper (TX-114TR/FR only)

OMS-12FE
up to 12m x 180°

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

MX-12FAM includes a sophisticated anti-masking system designed to expose any attempt to defeat the sensor by obstruction.

MX-12FAM	MX-12FAMD
up to 12m x 180°	up to 12m x 180°

- dual-zone detection system (+ microwave, MX-12FAMD only)
- 2-12m coverage
- dual alarm signal outputs
- anti-masking technology with near-lens awareness
- front and back tampers
- durable area masks stored conveniently in-device

HIGH-MOUNT PIR

Our high-performance PIR-T sensors offer the ultimate in detection versatility. Precision triple mirror optics and intelligent signal processing ensure accurate detection from a mounting height of 2m to 6m.

PIR-T15AM	PIR-T40NAM
up to 15m x 80°	up to 40m x 3.2m

- 4 selectable operation modes
- 2m to 6m installation height (by operation mode)
- high-performance triple mirror optical system
- precise detection area adjustment using on-mirror LED's
- anti-masking function
- lightning surge protection
- IP55 housing

INDOOR PIR

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

PA-6805E	PA-6810E	PA-6812E	PA-6820E
4m spot	15m x 360°	12m wide-angle	20m vertical curtain

- ceiling mount design
- 2m to 4.9m installation height
- detachable base unit with snap-in-out sensor design
- pulse count and sensitivity adjustable
- geared mirror array for precise area definition (PA-6812E/6820E)
- PA-6810E and PA-6812E also available in black (BL)

Twin Dual-Element mirror optics virtually eliminate false alarms for rock-solid performance in even the toughest of environments.

PA-6614E
14m wide angle

as PA-6812E, plus:
- unique twin mirror and two twin pyro optics
- accurately detects human intrusion whilst rejecting small animals
- up to 6m installation height (high density mode)
- available in white (W) or black (BL)

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INFRARED BEAMS
PASSIVE INFRARED SENSORS
ATTENTION SENSORS
FLAME SENSORS