

# TAKEX

## SECURITY SENSORS PRODUCT CATALOGUE

VAPE &  
SMOKING  
SENSOR



MM  
WAVE  
RADAR



REQUEST  
TO EXIT  
SENSOR



DUAL  
ZONE  
PIR

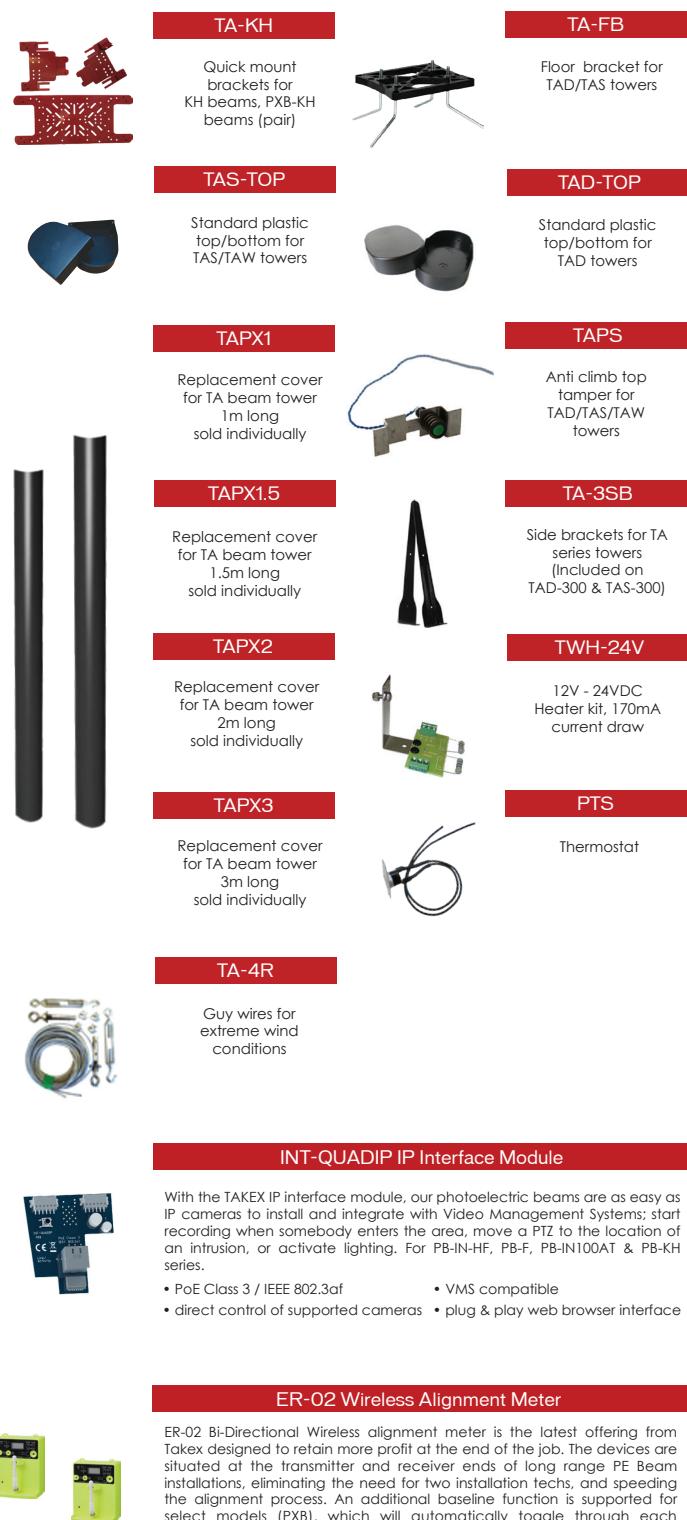


## BEAM ACCESSORIES

### Beam Accessories



### Beam & Tower Accessories



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# PHOTOELECTRIC BEAMS



**PR-1B**

1m Indoor "presence" sensor (no reflector required), Form "C" Relay, 10.5V to 22VDC.

**PR-5B**

5m Indoor reflector beam, N/C Relay, 10.5V to 26VDC.



**PR-11BE**

11m Outdoor / 50' Indoor single beam, Response time adjustment, N/O or N/C selectable output, Tamper Circuit, 10.5V to 30VDC.



**PR-30BE**

30m outdoor / 40m indoor reflector beam with Time of Flight technology, Response time adjustment 0.05/0.1/0.25/0.5, Easy beam alignment with Dual-Ring Viewfinder, +/-90 degree horizontal & +/-5 degree vertical thumbscrew adjustment, Alarm LED, Attenuation LED, Sound Check feature, N/O N/C Relay, N/O N/C Environmental Relay, Tamper, 10.5V to 30VDC



**PB-4RNS**

4m Reflector type miniature flush mount Single Photo Beam, N/O or N/C selectable output, 10V to 30VDC. Also available: PB-4RTNS Twin Reflective Beam

**PB-10NS**

10m Miniature flush mount Single Photo Beam, N/O or N/C selectable output, 10V to 30VDC. Also available: PB-10TNS Twin Beam



**PB-30TK**

**PB-60TK**

**PB-100TK**

30m outdoor / 60m indoor 60m outdoor / 120m indoor 100m outdoor / 200m indoor Economical yet high-performance, Double Modulated Twin Beam, N/O or N/C Relay, 50,000 Lux external light rejection, Tamper Circuit, 10V to 30VDC.



**PB-20TE**

**PB-40TE**

**PB-60TE**

20m outdoor / 40m indoor 40m outdoor / 80m indoor 60m outdoor / 120m indoor Intelligent Double Modulated Twin Beam, 4 Selectable Frequencies, N/O or N/C Relay, 50,000 Lux external light rejection, Tamper Circuit, 12V to 30VDC.



**PB-60TX**

Twin photo beam with a selectable range of 30m or 60m outdoors. Double modulated for increased external light immunity, 4 Selectable beam channels, Selectable N.O./N.C. alarm relay with secondary real-time alarm output mode suitable for alternative applications such as people counting, Tamper, IP55 housing, 10-28VDC non-polarity



**PBS-15T**

Double modulated twin photo beam with built-in flash beacon and siren upon detection (receiver only), detection range at 15 meter. Selectable frequency for L or H to prevent cross talk, 10V to 18V DC Dry contact relay output NO/NC selectable



**PB-50FA**

**PB-100FA**

**PB-200FA**

50m outdoor / 100m indoor 100m outdoor / 200m indoor 200m outdoor / 400m indoor Double Modulated Quad Beam, Form "C" Relay, 50,000 Lux external light rejection, Tamper Circuit, 12V to 30VDC. Alignment Tone Generator



50m outdoor / 100m indoor 100m outdoor / 200m indoor 200m outdoor / 400m indoor Intelligent Double Modulated Quad Beam, 4 Selectable Frequencies, Environmental Monitoring Circuit, Auto Gain Control, Selectable Relay Output N/O or N/C, 50,000 Lux external light rejection, Tamper Circuit, 12V to 30VDC. Alignment Tone Generator

## Reflective Beams



**PB-IN-100AT (Anti-Crawl)**

100m outdoor / 200m indoor

100m Outdoor / 200m Indoor Intelligent Double Twin Beam, "AND"/"OR" operation, 4 Selectable Frequencies, Auto Gain Control, Environmental Monitoring Circuit, Form "C" Relay, 50,000 Lux external light rejection, Tamper Circuit, 12V to 30VDC.



**PXB-100ATC (Anti-Crawl)**

100m Outdoor / 200m Indoor Intelligent Double Twin Beam, "AND"/"OR" operation, 4 Selectable Frequencies, Auto Gain Control, Environmental Monitoring Circuit, Form "C" Relay, 50,000 Lux external light rejection, Tamper Circuit, 12V to 30VDC, IP65. (Optional ER-02 wireless alignment meter)

**PXB-50HF**

**PXB-100HF**

**PXB-200HF**

50m outdoor / 100m indoor 100m outdoor / 200m indoor 200m outdoor / 400m indoor

High power wide pattern Quad Beam, Dual Ring alignment sight with target color, 180° & 20° angle adjustment, Improved insect & water prevention, 4 selectable frequencies, Environment Monitoring Circuit, Auto Gain Control, Selectable Relay Output, N/O or N/C, 50,000 Lux external light rejection, Tamper Circuit, 12V TO 30V DC. IP65 Rating. (Optional ER-02 wireless alignment meter)



**TXF-20TDM Double Modulated**

Battery operated double-modulated twin beam with a range of 20m outdoors with increased external light immunity, 4 Selectable beam channels, Selectable N.O./N.C. alarm relay, Wireless transmitter ready (not included), Drip proof IP55 housing, 4x DC3.6V lithium batteries (included) approximately 2-3 years of service.



**TXF-125E**

**TXF-125DM Double Modulated**

100m Outdoor / 200m Indoor High power wide pattern Quad Beam, Dual Ring alignment sight with target color, 180° & 20° angle adjustment, Improved insect & water prevention, Alarm, Environment, Low Battery, Tamper Outputs, N/O or N/C. Battery: 4x DC3.6V Lithium Batteries (2x for transmitter, 2x for receiver, included) TXF-125DM, 4x for transmitter, 2x for receiver, included)

(Optional ER-02 wireless alignment meter)



**TAD, TAS & TAW Beam Tower Series**

TAD  
Double  
Sided

TAS  
Single  
Sided

TAW  
Wall  
Mount

Available in Wall Mount, Single Sided and Double Sided floor mount versions. An extruded aluminum box section center provides rigid mounting of single or multiple sets of beams on sliding tray fixtures. Special covers pass the IR signal providing discreet location of the individual beam sensors. A beam tower tamper is provided for top cap removal. Sliding base mount and tower provides water ingress prevention.

Available in size: 1m, 1.5m, 2m & 3m

**PB-50HFA-KH**

**PB-100HFA-KH**

**PB-200HFA-KH**

50m outdoor / 100m indoor 100m outdoor / 200m indoor 200m outdoor / 400m indoor



**PB-100AT-KH (Anti-Crawl)**

100m outdoor / 200m indoor

PB-KH series beam sets are specifically designed to mount within the TAKEX TA series beam towers. These versions have the same features as the non-tower mount versions beams yet are less expensive since they require less materials. Circuit boards are double dipped for moisture prevention providing long lasting field performance.

## Anti-Crawl

## Quad Beams

## Battery Operated

## Tower Solutions

# SPECIALTY SENSORS

## PIR-T15AM (ANTI-MASK)



15m x 80° Wide Angle High Mount PIR 40m x 3.2m Vertical Curtain Protection

High mount outdoor PIR 2m to 6m, 15m x 80° wide detection range or 40m x 3.2m vertical curtain protection, 3 Mirror-Optics, Small animal resistant, N/O or N/C selectable output, 9 to 28VDC, IP55 Housing, Triple Mirror Design, Detection area check function.

4 position modes: Low position, High position, Pet mode and High density.

## PIR-30WE



30m x 30m Wide Angle

## PIR-50NE

50m x 3m Long Range

Mirror optics, Quad pyroelectric element, Sensitivity adjustment from 30% & 170%, Weather resistant AES resin housing for indoor & outdoor use, Wall mounting height of 3.5m. Optional mounting brackets, N/O or N/C selectable output, Pulse Count 1/2/4 selectable, 9V to 30VDC.

## MX-12FAMD



Microwave & PIR Combination

Two 12m x 90° detection PIR zones with Anti-Masking Independent adj. for 90° & 180° detection, 2-Independent Right & Left N.O./N.C. Alarm Relays for 90° detection and One with 180° detection with N.O. trigger on Alarm Output 2. Front & Back Tamper alarm relay, Trouble Relay Output for anti-mask operation, Small animal resistant, vertical and horizontal head adjustment. Pulse count & sensitivity adjustment, IP55 weather resistant rating, Outdoor rating housing, 9V to 28VDC non polarity

**MX-12FAMD, Microwave/PIR combination unit.**

## MS-12FE



Two 12m x 90° detection zones, independent adj. for 180° detection

## MS-12TE

One 12m x 90° detection zone  
Small animal resistant, Vertical and Horizontal head adjustment, Sensitivity adjustment, Pulse Count, Selectable N/O or N/C Relay with time adjustment, Tamper Circuit, Outdoor rating housing, 9V to 28VDC non polarity.

**Optional: White lenses are also available.**

## TX-114FR



Two 12m x 90° detection zones, independent adj. for 180° detection

## TX-114TR

One 12m x 90° detection zone  
Small animal resistant, Vertical and Horizontal head adjustment, Sensitivity adjustment, Pulse Count, Selectable N/O or N/C Relay with time adjustment, Tamper Circuit, Power: 3 to 9V DC Alkaline or Lithium Battery. Compatible with virtually any wireless transmitter.

**Battery Powered Wireless Ready**

## PVW-12TE



12m x 90° Wide angle PIR with Recordable Messages, 180° rotating sensor head, small animal resistant. Variable volume up to 80db. 10 to 30VDC (Non polarity)

## PV-12



12m x 75.5° Wide angle PIR with speaker, Form "C" Relay

Speaker only, "No Motion Sensor", Trigger by external N/O input contact

## AV-100

3 Watt 100dB speaker, Re-recordable 8-second message, 12VDC.

## PS-520



Mirror Optic, Wall or Ceiling Mount, Single or Double Door selectable, Two Form "C" Relays, "Fail Safe" or "Fail Secure" selectable, 12V/24V AC/DC operation, 0.25 to 60 seconds relay hold time.

Available in White and Silver

## DA-303S



Near infrared beam direct reflection, High density detection pattern, Adjustable angle, Stationary object/person detection, Selectable frequency, Output N/O, 24V DC, Available in Silver.

## Accessories

## BW-24



Wall mount attachment for MS-12 series

## BP-22



Pole mount attachment for MS-12 series

## MB-301



Ceiling Mount Bracket for DA-303S

## BK-301



Water Proof Cover (Mounting Bracket) for DA-303S

The FS-Series flame sensors are designed for supervisory and non-life safety applications for the detection of ultraviolet rays contained within open flames. The detection range is approximately 10m and sensors activate a built-in alarm sounder or are connected to a remote panel annunciating device.

## FS-1000E



10m detection range, Built-in sounder, Battery operated or external 9V to 30VDC power, N/O collector output, Selectable detection times.

## FS-2000E



10m detection range, Built-in sounder, 10V to 30VDC power, Adjustable angle of sensing element, Form "C" Relay, Tamper Circuit, Selectable detection times.

## FS-3500E



10m detection range, Ceiling mount, "Snap in Base", Battery 3V or External Power 10 - 30VDC, Relay Output N/O - N/C, Selectable detection times, Pre-recorded Voice Message Output - 5 Languages.

## FS-5000E



10m detection range, Weather Resistant, Indoor/Outdoor, Form "C" Relay, 10V to 30VDC power, Selectable detection times.

## TX-124R



10m detection range, Weather Resistant, Indoor/Outdoor, Solid State Switch N.C., 3V DC 0.01A max. Power: DC3V (CR-123A) Selectable detection times.

**Battery Powered Wireless Ready**

## FP-2500E



Flame & PIR Combination

10m flame detection & 10m wide angle motion detection with Pet Immune 18kgs setting, Two selectable output modes include "AND" or "INDIVIDUAL", Flame detection timer adjustment, N/O N/C Alarm Relays, Tamper, Alarm Memory, 10V to 30VDC Optional: BCW-401 Ceiling/Wall Bracket

## GS-1100E



7m x 7m Ultrasonic Type Glass Break Sensor Easy installation, wall mount design, sensitivity adjustment, alarm/environmental LED operation check, alarm memory function. Slim and compact 32mm profile. Dry contact relay output: N/C, Reset time 2 seconds, 9V – 20V DC non polarity

## GS-2000E



7m x 8m Ultrasonic Type Glass Break Sensor Easy installation, wall or ceiling mount design, sensitivity adjustment, alarm/environmental LED operation check, alarm memory function, screw-less terminal block. Slim and compact 45mm height, 32mm depth profile. Dry solid state contact Alarm output: N/O or N/C selectable, 9V – 28V DC non polarity

## EG-2000



Glass Break Checker  
Compatible with both GS-1100E and GS-2000E.  
Checks the sensitivity and alarm operation of Glass Break Sensor.

**NEW**

## MX-12FRAM



Battery operated wireless ready Dual Zone Outdoor PIR with Anti-Masking, Works with virtually any wireless transmitter (not included), 2m to 12m adjustable 180-degree coverage, 3V DC (CR123A battery), Low Battery Output, N/O or N/C selectable Alarm Relay, Trouble output N/C, Tamper output N/C, 1-3 Pulse Count and Sensitivity adjustment, IP55 wall mount, Optional BP-32 pole mount.

**NEW**

## MMW-3S



Spot Dia. 1m / Detection distance 3.5m max. (16

## MMW-3W

Wide Angle 4m x 1m / Detection distance 3.5m max. (16 pattern)

FCC approved, 60GHz mmWave radar presence sensor for indoor use detecting motion or stationary presence of people, Wall or Ceiling mount, 16 patterns, N/O or N/C selectable output, Trouble relay N/C, Tamper N/C, Screwless terminals, 9 to 28V DC, Available in White or Black, OPTIONAL: BCW-401 wall/ceiling bracket in white

**NEW**

## VS-1000E



Vape & smoke particle sensor, Up to 2.4m mounting height, Wall or ceiling mount, Standard/Low sensitivity setting, N/O or N/C selectable output, Alarm buzzer, No app or licensing required, Tamper, L.E.D. on/off, Screwless terminals, 10.5 to 28V DC

**NEW**

## PS-530E



Request to Exit with up to 4.5m max. mounting height Compact design, Wall or Ceiling mount, Two Form C relays, PIR using Fresnel lens, 4 step sensitivity adjustment, Adjustable hold time, Refrigger mode, Screwless terminals, Fail Safe/Fail Secure selectable, Anti-masking sheet, 10.5 to 28VDC or 12 to 24V AC, White or Black. OPTIONAL: PS-3PL or PS-3PL (BK) back plate

**NEW**

## PR-S3



Roll-Up Door Sensor Near-Infrared Reflection type, Up to 40cm detection range, Unique Double Beam, Sensitivity Indicator, Delay Circuit, Form C relay, Alarm Memory, 10-30VDC

**NEW**

## SH-M5



Roll-Up Door Sensor Magnetic Modulation type, Up to 12cm detection range, Sensitivity Adjustment, Sensitivity Indicator, Delay circuit, Environmental immunity, Alarm Memory, Form C relay, 10-30VDC

## PA-450EA



11m x 84° Wide angle, Look Down Zone, Pulse Count 1-2-3-4. Sensitivity 60%, 80%, 100% or 120%. Pet Immune up to 18kgs. for PA-450PIA, Fresnel Lens, Silent N/O or N/C selectable output, Tamper Circuit, LED on/off, Alarm Memory, 10V to 18VDC.

## PA-460EA



18m Vertical curtain, Fresnel lens, Silent N/O or N/C selectable output, Tamper Circuit, LED on/off, Alarm Memory, 10V to 18VDC.

## PA-470L



16m x 84° Wide angle or 66° Long range (includes both Fresnel lenses), Quad, "Fuzzy Logic" signal processing, N/O or N/C selectable output, Tamper Circuit LED on/off, Alarm Memory, 9.5V to 28VDC.

## PA-4810E



12m x 84° Wide Angle Adjustable Mirror Optic with aiming LED, Quad, "Fuzzy Logic" signal processing, Pulse Count & Sensitivity adjustment with Slight Motion Detection, N/O or N/C selectable output, Tamper Circuit, LED on/off, Alarm Memory, Trouble Alarm Output, 10V to 30VDC.

## PA-4820E



8m x 180° Ultra-Wide angle, Fresnel lens, Look-Down Zone, Twin Element Pyro, Pulse Count, N/C output, Tamper Circuit, LED on/off, 9.5V to 28VDC.

## New Products



## PA-5312E

12m x 84° Wide Angle

## PA-5325E

25m Long Range



## PA-6614E

Pet immune up to 18kgs, 14m wide detection pattern, Twin Mirror PIR System, Up to 6m ceiling mounting height, Pulse count & sensitivity adjustment, Temperature compensation, N/O or N/C selectable output, N.C. Tamper relay, 7V to 30V DC non polarity, Super low 8mA current draw.

## PA-6614BL (BLACK)



## PA-6805E

360° x 4m diameter Spot Coverage Angle

360° x 15m diameter

Separate base & sensor head, Pulse Count & Sensitivity adjustment, Silent N/O or N/C selectable output, Tamper Circuit, LED on/off, Alarm Memory, Fresnel Lens, 7 to 28VDC non polarity.

## PA-6812E

12m x 84° Wide Angle Mirror Optic

20m Vertical curtain Mirror Optic



## PA-6810BL (BLACK)

Separate base & sensor head, Pulse Count & Sensitivity adjustment, Silent N/O or N/C selectable output, Tamper Circuit, LED on/off, Alarm Memory, 9V to 18VDC.

## PA-6812BL (BLACK)

360° x 15m diameter

12m x 84° Wide Angle Mirror Optic



## PA-7012E

12m x 12m Wide Angle

30m x 1.8m Long Range

360° x 12m diameter when mounted at 3.6m



Ceiling or Wall Mountable, Digital Quad, Mirror Optic, On-board pattern locator, Automatic temperature compensation, Form "C" Relay, Tamper Circuit, Alarm Memory, 9V to 18VDC non polarity.

## PA-7100E



## BCW-401

Wall/Ceiling Bracket for most standard TAKEX PIR sensors



Wall mount bracket for most standard TAKEX PIR sensors



## BP-150AE

Anti Masking Base Plate works with PA-6800 series & FS-2000E



Optional mounting plate for single-gang electrical boxes (Black & White)



## MS-100E

10m x 64° Wide angle & Long Range 20m detection patterns, Vertical, horizontal and ceiling mount capable. Internal sensor head rotates, Sensitivity adjustment, N/O or N/C selectable output with time adjustment, weather resistant, Tamper Circuit, 10.5V to 28VDC



## PA-15WE

15m x 15m Wide Angle

## PA-30NE

30m x 3m Long Range Range



Weather resistant, Mounts to wall or ceiling, adjustable sensor head, Form "C" relay, 10.5V to 30VDC.



## PA-8410E

10m x 10m Wide angle (When mounted at 8m)

## PA-8420E

20m Long range (When mounted at 8m)



4 mirror optics and pyroelectric elements offer dense pattern coverage. Sensitivity adjustment from 60% to 120%, Indoor/Outdoor, N/O or N/C selectable output, 9V to 30VDC.

## Accessories

## High Mount & High Performance



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