

# TAKEX

## SECURITY SENSORS

To download TAKEX Security Products Cutsheet and Installation Guide, please click on the part number.

### Indoor PIR Sensors Wall & Ceiling Mount

**PA-450** 36" x 84" Wide angle, Look Down Zone, Pulse Count  
**PA-450PI (Small Animal Resistant)** Pet Immune up to 40lbs., 36" x 84" Wide angle, Pulse Count  
 Silent N/O or N/C selectable output, Tamper Circuit, LED on/off, Alarm Memory, 10V to 18VDC.

**PA-460** 55" Vertical curtain, Fresnel lens, Silent N/O or N/C selectable output, Tamper Circuit, LED on/off, Alarm Memory, 10V to 18VDC.

**PA-470L** 53' 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, 9V to 18VDC.  
**PA-480S** 26' x 180" Ultra-Wide angle, Fresnel lens, Look-Down Zone, Pulse Count, N/C output, Tamper Circuit, LED on/off, 9V to 18VDC

**PA-4810** 40' x 84" Wide angle  
**PA-4820** 82" Long range  
 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, 10V to 30VDC.

**PA-5312** 40' x 84" Wide angle  
**PA-5325** 82" Long range  
 Separate base and sensor head, Adjustable Mirror Optic QUAD with aiming LED, Pulse Count & Sensitivity adjustment with Slight Motion Detection, N/O or N/C selectable output, Alarm Contact Check Feature with trouble output, Tamper Circuit, LED on/off, Alarm Memory, 9.5V to 30VDC

**PA-6612E (Small Animal Resistant)**  
 Pet Immune up to 40lbs., 40' x 84" Wide angle, 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-6805** 360° x 13' diameter Spot Coverage  
**PA-6810** 360° x 50' diameter Mirror Optic  
**PA-6812** 40' x 84" Wide angle Mirror Optic  
**PA-6820** 66' Vertical curtain Mirror Optic  
 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.

**BP-150AE (Anti-Masking Base Plate)**  
 Sensor base incorporating "anti-masking" capabilities. Works with motion sensors PA-6612E, PA-6812E, PA-6820E and Flame Sensor FS-2000E.  
**Note:** Sensor head is not included

**PA-7012** 40' x 40" Wide angle  
**PA-7030** 100' x 6' Long Range  
**PA-7100** 360° x 40' diameter when mounted at 12'  
 Digital Quad, Mirror Optic, On-board pattern locator, Automatic temperature compensation, Form "C" Relay, Tamper Circuit, Alarm Memory, 9V to 19VDC.

**PA-8410** 33' x 33" Wide angle (When mounted at 26")  
**PA-8420** 66" Long range (When mounted at 26")  
 4 mirror optics and pyroelectric elements offer dense pattern coverage, Sensitivity adjustment from 60% to 120%, Indoor/Outdoor, N/O or N/C, 9V to 30VDC

### Outdoor PIR Sensors Wall & Ceiling Mount

**MS-12FE** Two 40' x 90° detection zones, independence adj. for 180° detection  
**MS-12TE** One 40' 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, 12V to 30VDC.

**MS-60** 20' x 6.6" Direction Conscious sensor  
**MS-100** 33' x 64" Wide angle & Long Range 66" detection patterns, Vertical, horizontal and ceiling mount capable  
 Internal sensor head rotates, Sensitivity adjustment, Selectable N/O or N/C Relay with time adjustment, Rain proof housing, Tamper Circuit, 10.5V to 30VDC.

**PA-15WE** 50' Wide Angle  
**PA-30NE** 100' Long Range  
 Weather resistant, Mounts to wall or ceiling, adjustable sensor head, Form "C" relay, 10.5V to 30VDC

**PIR-30WE** 100' x 100' Wide Angle  
**PIR-50NE** 165' x 10' 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 11.5'. Optional mounting brackets, Selectable N/O or N/C relay, 9V to 30VDC

### Wireless PIR Sensors Wall Mount *New!*

**TX-114FR** Two 40' x 90° detection zones, independence adj. for 180° detection  
**TX-114TR** One 40' 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.

### Door Sensors Request-to-Exit PIR

**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

### Auto Door/Shutter Sensors Indoor/Outdoor

**DA-101**  
 Near infrared beam direct reflection, Adjustable angle, Stationary object/person detection, Selectable frequency, Output N/O, 12V/24V AC/DC, Available in White and Silver.

**DA-301**  
 Near infrared beam direct reflection, High density detection pattern, Adjustable angle, Stationary object/person detection, Selectable frequency, Output N/O, 24V DC, Available in White and Silver.

**DA-4800H**  
 High-density detection field from 1 to 4 rows, Programmable stationary object detection in rows 1 & 2 with motion sensing in rows 3 & 4, mounting heights up to 13.9', Adjustable depth & detection width, Works with vertical shutter doors, Special mode to work in areas with falling snow, leaves & flying insects, Self diagnostic feature, Sensitivity adjustment, N.O. output relay, 12/24V AC/DC, Sensor available in Silver.

**DA-6500** High-density detection field with flexible mounting heights up to 21.5'. Detection width up to 21.5' depending on mounting height. Direction of travel detection for Entry, Exit and Cutting Across the sensors field of view, Stationary object detection with timer feature. Works with vertical shutter doors, Sensitivity adjustment, N.O. output relay, 12/24V AC/DC, Sensor available in Silver.  
**DA-6500R**

### Flame Sensors Indoor/Outdoor

The FS-Series flame sensors are designed to detect ultra violet rays in flames. With a detection range of approximately 33' they either activate a built-in alarm sounder or are connected to a remote panel annunciating device.

**FS-1000** Indoor Rated  
 33' detection range, Built-in sounder, Battery operated or external 9V to 30VDC power, N/O collector output, Selectable detection times.

**FS-2000** Indoor Rated  
 33' detection range, Built-in sounder, 10V to 30VDC power. Adjustable angle of sensing element, Form "C" Relay, Tamper Circuit, Selectable detection times.

**FS-3000** Indoor Rated  
 33' detection range, Pre-recorded voice message delivers specific instructions or warning. High sensitivity for indoor use, battery operated or external power, N/O collector output, Selectable detection times.

**FS-5000** Outdoor Rated  
 33' detection range, Weather Resistant, Indoor/Outdoor, Form "C" Relay, 10V to 30VDC power, Selectable detection times.

**FS-6000** Outdoor Rated  
 33' detection range with Built-In speaker and voice message, Weather Resistant, Indoor/Outdoor, Form "C" Relay, Power 12VDC, Selectable detection times.

### Speaker Sensors Indoor/Outdoor

**PV-12** 40' x 75.5" Wide angle PIR with speaker, Form "C" Relay  
**AV-100** Speaker only, "No Motion Sensor", Trigger by external N/O input contact  
 3 Watt 100dB speaker, Re-recordable 8-second message, 12VDC

**PVW-12TE**  
 40' x 90" Wide angle PIR with Recordable Messages, 180° rotating sensor head, small animal resistant. Day/Night switching allows playback of 2 different messages, variable volume up to 80db.

### Reflective Beams Photoelectric

**PR-1B**  
 3' Indoor "presence" sensor (no reflector required), Form "C" Relay, 10.5V to 22VDC.

**PR-5B**  
 16' Indoor single beam, N/C Relay, 10.5V to 26VDC.

**PR-10B**  
 33' Indoor single beam, N/C Relay, 10.5V to 15VDC.  
 Also available: PR-10BU, Flush Mount Version.

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

### Miniature Beams Photoelectric

**PB-4RNS**  
 13' 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**  
 33' Miniature flush mount Single Photo Beam, N/O or N/C selectable output, 10V to 30VDC.  
 Also available: PB-10TNS Twin Beam

### Twin Beams Photoelectric

**PB-30TK** 100' outdoor / 200' indoor  
**PB-60TK** 200' outdoor / 400' indoor  
**PB-100TK** 330' outdoor / 660' 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** 66' outdoor / 132' indoor  
**PB-40TE** 132' outdoor / 264' indoor  
**PB-60TE** 200' outdoor / 400' 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-100ST**  
 330' Outdoor / 660' Indoor Double Modulated Twin Beam, Form "C" Relay, 50,000 Lux external light rejection, Tamper Circuit, 10V to 30VDC.

### Standard Quad Beams Photoelectric

**PB-50F** 165' outdoor / 330' indoor  
**PB-100F** 330' outdoor / 660' indoor  
**PB-200F** 660' outdoor / 1320' indoor  
 Double Modulated Quad Beam, Form "C" Relay, 50,000 Lux external light rejection, Tamper Circuit, 12V to 30VDC.

### Intelligent Quad Beams Photoelectric

**PB-IN-50HF** 165' outdoor / 330' indoor  
**PB-IN-100HF** 330' outdoor / 660' indoor  
**PB-IN-200HF** 660' outdoor / 1320' indoor  
**PB-IN-75SW** 250' outdoor / 500' indoor "Low Current Draw at 6VDC"  
 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.

### Anti-Crawl Beams Photoelectric

**PB-IN-100AT**  
 330' Outdoor / 660' 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.

### Combination Sensor Photoelectric & Microwave

**COM-IN-50HF**  
 165' outdoor combination Intelligent Double Modulated Quad photoelectric beam and Microwave sensor, Improved catch performance during difficult weather conditions, Auto Gain Control, Environmental Monitoring Circuit, 2 frequencies available (High & Low), Tamper Circuit, 12V to 30VDC.

### Microwave Sensor Point-to-Point Detection

**MW-50**  
 Point-to-Point "K" Band Microwave sensor with a range of 165' outdoors, Adjustable response time, Automatic Gain Control, 2 frequencies available (High & Low), Form "C" Relay, Tamper Circuit, 12V to 30VDC.

**MW-100A** *New!*  
 Point-to-Point "K" Band Microwave sensor with a range of 165' outdoors, Adjustable response time, Automatic Gain Control, 2 frequencies available (High & Low), Form "C" Relay, Tamper Circuit, 12V to 30VDC.

### Towers & Solar Options Photoelectric

**BT Series** **BTSS Series**  
 The new BT series beam towers come in a variety of sizes and styles. Traditional two-sided and single-side towers as well as wall mount versions are available. Beam towers are offered in the following lengths: 1 Meter, 1.5 Meters, 2 Meters, and 3 Meters. Each beam tower can be populated with the TAKEX photoelectric beam that suits your specific application. Optional accessories, heater kits and mounting hardware are available. Consult with a TAKEX representative for your particular requirements.  
**Note:** BT series beam towers are sold individually

**LT-1 Lamp Tower**  
 Standing at 3.3 feet tall, the LT-1 garden lamp tower series has been designed with discrete security in mind for both residential and commercial applications. These towers provide detection in areas where unobtrusive or covert security are a premium. The LT-1 series lamp towers can be populated with either the TAKEX TE or TK series twin beams. Light source can be of low or high voltage depending upon the type of bulb. Optional heaters are available for cold weather climates.  
**Note:** LT-1 lamp towers are sold individually and in pairs.

**LT-1WM Wall Mount Lamp Tower**  
 The new LT-1WM wall mount lamp towers have been designed with discrete security in mind. These towers provide detection capabilities in areas where esthetics and covert security are desired. The LT-1WM wall mount lamp towers can be populated with either the TAKEX TE or TK series twin beams. Light source can be of low or high voltage depending upon the type of bulb. Optional heaters are available for cold weather climates.  
**Note:** LT-1WM lamp towers are sold only in pairs.

**SPK Series Kits**  
 The SPK Series kits feature the PB-IN-75SW low current draw photoelectric beam combined with the BA-6SL battery & voltage regulator and a 2-watt solar panel. The SPK-250-6-1 offers wiring to one side of the photoelectric beam and provides solar/battery power to the other side of the photoelectric beam. The SPK-250-6-2 provides solar/battery power to both the transmitter and receiver sides of the photoelectric beam. The maximum zone detection length outdoors is 250 feet.  
**Note:** Mounting poles and wireless transmitters are not provided.

TAKEX, formerly PULNiX, is the recognized leader when it comes to sensor technology, and is known worldwide for unsurpassed quality, reliability, features, and overall value.

Our commitment to you, the security professional, is to deliver ultimate customer satisfaction and uncompromising quality, backed by a 100% Hot Test and five year warranty.