NO WIRES, NO HASSLES. FINALLY.

- 100ft. (AX-100TFR) and 200ft. (AX-200TFR) Models
- Significant cost saving alternative to traditional hardwired systems
- Long battery life
  [Approx. five (5) years for the 100TFR and three (3) years for the 200TFR]
- Low battery output and LED
- Works with most manufacturers wireless systems
- D.Q. circuit (environmental disqualification)
- IP 55 Rated
The AX-100/200TFR is a REVOLUTION in the perimeter security industry, offering a significant cost saving alternative to a traditional hardwired system.

Advantage of Wireless Photoelectric Detector

1. Low installation costs

User benefit

Total Cost

Wired System

Wireless System

2. Quick & easy installation
3. Flexible location
4. Wireless stylish design
5. Free from lightning damage
6. Compatible with numerous wireless transmitters

Various mounting patterns

Wall mount  Pole mount (single detector)  Pole mount (two detectors)  Beam tower

Optional bracket (MP-4) required
New features

Long battery life

- AX-100TFR(30m): Approx. 5 years
- AX-200TFR(60m): Approx. 3 years

*Use four LSH20 (3.6V, 13Ah) batteries manufactured by SAFT (not included).
**Battery life of AX-200TFR receiver is approximately 5 years.

Multi functional back box

- Main unit
- Back box
- Chassis

Battery box
- Wireless transmitter space
- Back box tamper
- Output terminal
- Honeycomb chassis
- O-ring
- Wall tamper switch

Easy battery replacement

It allows you to easily replace the batteries without opening the front cover. Not necessary to do the optical alignment.

Low battery output and LED

The unit automatically outputs when the battery power becomes low.
*To monitor the low battery signal, another wireless transmitter is required. Low battery LED will flicker when a front cover is removed.

Triple tamper functions

Form C output activates when either cover or back box as well as chassis is removed.

Intermittent output function

Alarm Signals are sent periodically to avoid missed alarm while the beam is broken. Its function is effective for wireless systems which do not recognize "Restore" status.

Battery saving timer

Alarm output activation are limited by a timer to 2 minutes. Even if there are continuous alarm events, the alarm output operates only once in the timer period. It prolongs the battery life of a wireless transmitter.

Basic performance

- 99% Beam blocking stability
- 4 selectable beam frequencies
- D.Q.circuit (environmental disqualification)
- N.C./N.O. output selection switch
- A.G.C. circuit
- International protection IP55
- Beam interruption adjustment function
- High grade aspherical lens
- Easy angle adjustment function
## Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>AX-100TFR</th>
<th>AX-200TFR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Range</strong></td>
<td>30m (100ft.)</td>
<td>60m (200ft.)</td>
</tr>
<tr>
<td><strong>Maximum arrival distance</strong></td>
<td>265m (870ft.)</td>
<td>530m (1,740ft.)</td>
</tr>
<tr>
<td><strong>Detection method</strong></td>
<td>Infrared beam interruption detection</td>
<td></td>
</tr>
<tr>
<td><strong>Beam frequency selection</strong></td>
<td>4 channel</td>
<td></td>
</tr>
<tr>
<td><strong>Interruption period</strong></td>
<td>Variable between 50, 100, 250, 500ms (4 steps)</td>
<td></td>
</tr>
<tr>
<td><strong>Power Source</strong></td>
<td>3.6V 13.0Ah: LSH20 lithium batteries manufactured by SAFT(not included) Transmitter: 2 units Receiver: 2 units</td>
<td></td>
</tr>
<tr>
<td><strong>Current draw</strong></td>
<td>620μA T:300μA + R:320μA (at 25°C, 3.6VDC)</td>
<td>810μA T:490μA + R:320μA (at 25°C, 3.6VDC)</td>
</tr>
<tr>
<td><strong>Battery life</strong></td>
<td>Transmitter: 5 years Receiver: 3 years</td>
<td></td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>Alarm output: Form C-Solid State Switch: 3.6 VDC, 0.01A Alarm period: 2 sec (+1) nominal D.Q. output: Form A/B-Solid State Switch: 3.6 VDC, 0.01A Low battery output: Form A/B-Solid State Switch: 3.6 VDC, 0.01A (Transmitter &amp; Receiver) Tamper output for Front cover: Form C: 3.6VDC, 0.01A activates when cover removed. (Receiver only) Tamper output for Back box: Form C: 3.6VDC, 0.01A activates when either back box or chassis is removed from the installament.</td>
<td></td>
</tr>
<tr>
<td><strong>Indicator</strong></td>
<td>Alarm Indicator (Receiver): (1) Light on - IR Beam not received. (2) Flickering Light - IR Beams not received sufficiently. (3) Light off - IR Beams received. Power (Transmitter): Power ON: ON, Power OFF: OFF Low battery Voltage Reduction: flicker</td>
<td></td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>-4°F to +140°F (-20°C to +60°C)</td>
<td></td>
</tr>
<tr>
<td>** Operating ambient humidity**</td>
<td>95% (Max.)</td>
<td></td>
</tr>
<tr>
<td><strong>Alignment angle</strong></td>
<td>± 90° Horizontal, ± 5° Vertical</td>
<td></td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>Indoor/Outdoor, Wall/Pole/Tower mounting (Optional main unit mounting brackets are required, when the units mount in the tower.)</td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>56.5 oz</td>
<td></td>
</tr>
<tr>
<td><strong>International protection</strong></td>
<td>IP55</td>
<td></td>
</tr>
</tbody>
</table>

Specifications and design are subject to change without prior notice.

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## Spacious Back Box

The following figure shows the dimensions of the wireless transmitter installation space in the back box. Note that transmitters with dimensions greater than those are not applicable.

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## Options

- **MP-4**: Man unit mounting bracket set (for tower mounting)

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## Dimensions

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**NOTE:**

These units are designed to detect an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion. These products conform to the EMC Directive 2004/108/EC.

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**OPTEX INCORPORATED (USA)**

13661 Benson Ave. Chino, CA 91710

TEL. 800-966-7859  FAX 909-628-5560

www.optexamerica.com

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**Without the tamper busing, the LEDs are kept ON, which consumes more battery power.**

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**The pole size should be ø43-48mm(1.69'-1.98')**