

# AX-100/200TFR

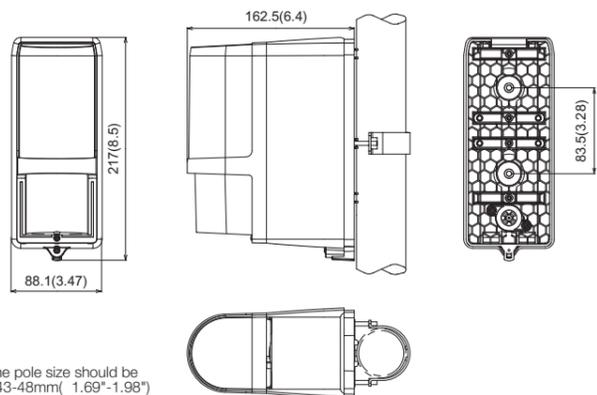


## SPECIFICATIONS

| Model                         | AX-100TFR  | AX-200TFR                                      |
|-------------------------------|--|--|
| Range                         | 30m (100ft.)   | 60m(200ft.)                                    |
| Maximum arrival distance      | 265m (870ft.)  | 530m (1,740ft.)                                |
| Detection method              | Infrared beam interruption detection   |  |
| Beam frequency selection      | 4 channel  |  |
| Interruption period           | Variable between 50, 100, 250, 500msec (4 steps)   |  |
| Power Source                  | 3.6V 13.0Ah : LSH20 lithium batteries manufactured by SAFT(not included)<br>Transmitter : 2 units Receiver : 2 units                     |  |
| Current draw                  | 620μA<br>T:300μA + R:320μA<br>(at 25°C,3.6VDC)   | 810μA<br>T:490μA + R:320μA<br>(at 25°C,3.6VDC) |
| *Battery life                 | Transmitter<br>Receiver<br>5 years   | 3 years<br>5 years                             |
| 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<br>(Transmitter & Receiver)   |  |
| Tamper output for Front cover | Form C : 3.6VDC, 0.01A<br>activates when cover removed. (Receiver only)  |  |
| Tamper output for Back box    | Form C : 3.6VDC, 0.01A<br>activates when either back box or chassis is removed from the installment.                                     |  |
| Indicator                     | (1) Light on - IR Beam not received.<br>(2) Flickering Light - IR Beams not received sufficiently.<br>(3) Light off - IR Beams received. |  |
| Power (Transmitter)           | Power ON : ON,<br>Power OFF : OFF  |  |
| Low battery                   | Voltage Reduction : flicker  |  |
| Operating temperature         | -20°C - +60°C(-4°F - +140°F)   |  |
| Operating ambient humidity    | 95%(Max.)  |  |
| Alignment angle               | ± 90° Horizontal, ± 5° Vertical  |  |
| Mounting                      | Indoor/Outdoor, Wall/Pole/Tower mounting<br>(Optional main unit mounting brackets are required, when the units mount in the tower.)      |  |
| Weight                        | 1600g (56.5oz)<br>(Total weight of transmitter + receiver,excluding accessories)   |  |
| International protection      | IP55   |  |

Specifications and design are subject to change without prior notice.  
\* The value is based on the condition that it is used within the ambient temperature range of 20 to 25°C.

## DIMENSIONS

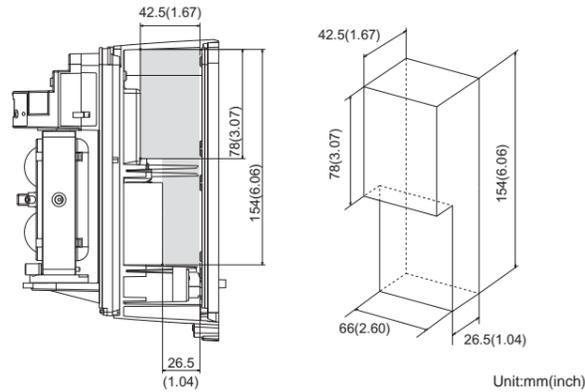


The pole size should be 43-48mm( 1.69"-1.98")

Unit:mm(inch)

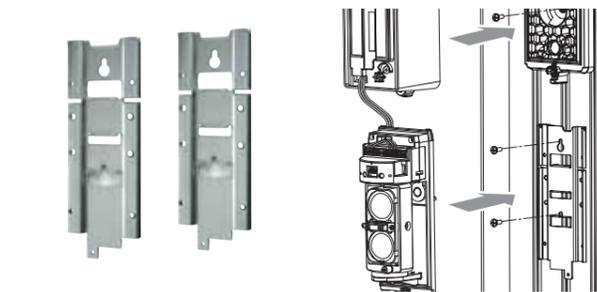
## SPACIOUS BACK BOX

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.

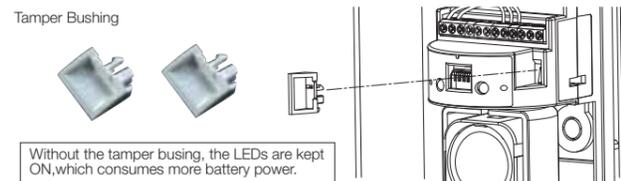


## OPTIONS

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



Tamper Busing



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

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.



**OPTEX CO., LTD.** (ISO 9001 Certified / ISO14001 Certified)

5-8-12 Oyodo, Otsu, Shiga, 520-0101 Japan  
TEL +81(0)77 579 8670 FAX +81(0)77 579 8190

OPTEX INCORPORATED (USA) <http://www.optexamerica.com/>

OPTEX (EUROPE) LTD. (UK) <http://www.optex-europe.com/>

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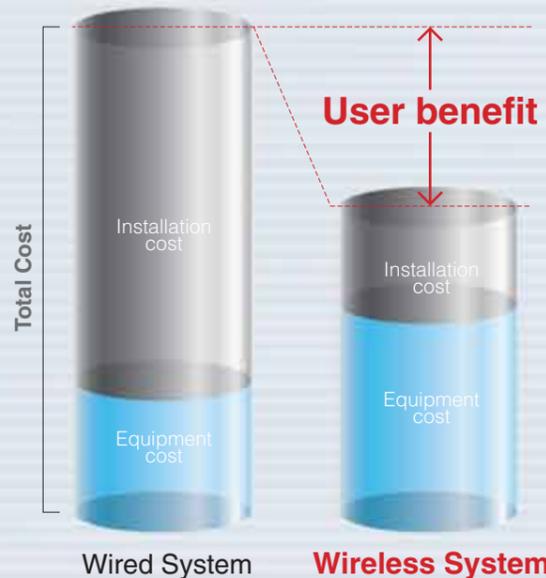




The AX-100/200TFR is a **REVOLUTION** in the perimeter security industry, offering a significant cost saving alternative to a traditional hardwired system.

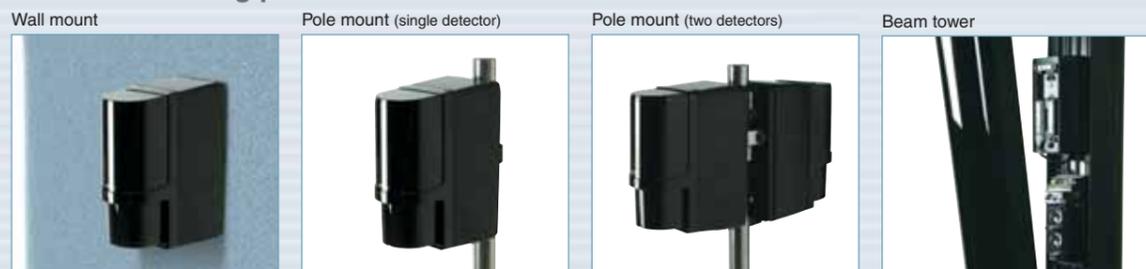
## Advantage of Wireless Photoelectric Detector

### 1 Low installation costs



- 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



Optional bracket(MP-4) required

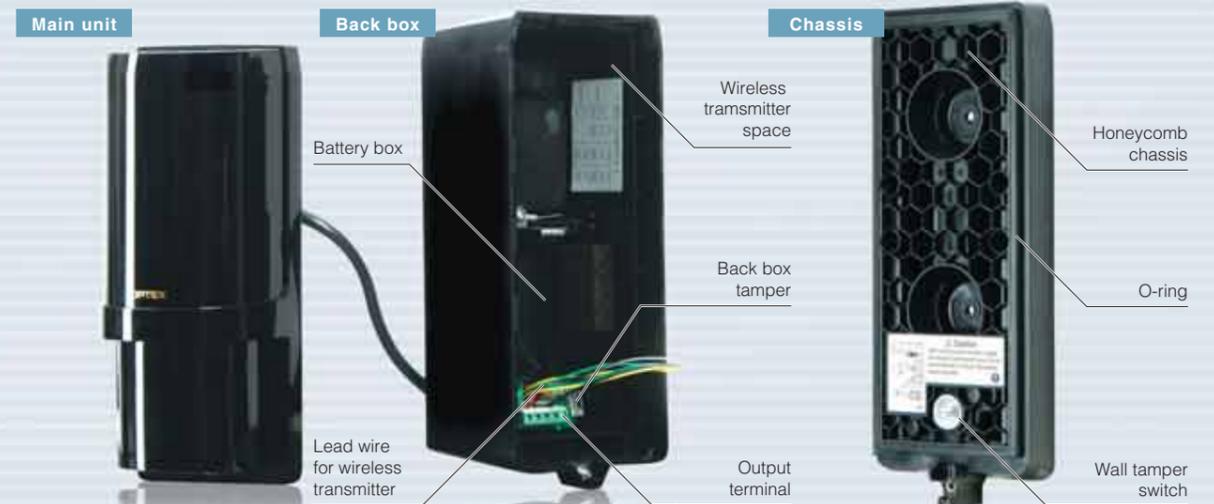
## New features

### Long battery life

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

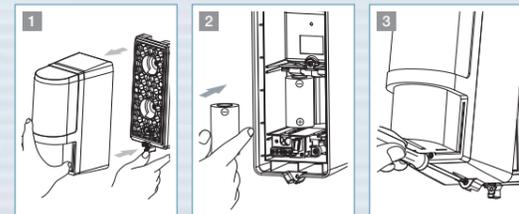
\*Use four LSH20 (3.6V, 13Ah) batteries manufactured by SAFT(not included).  
\*\*Battery life of AX-200TFR receiver is approximately 5 years.

### Multi functional back box



### Easy battery replacement

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



### Triple tamper functions

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



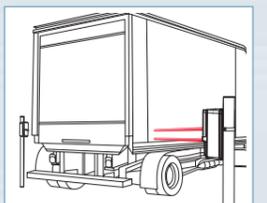
### Low battery output and LED

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.



### 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 (enviromental 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