

RELIABILITY CHART FOR OUTDOOR PROTECTION

Specially designed to prevent various causes of outdoor false alarms.

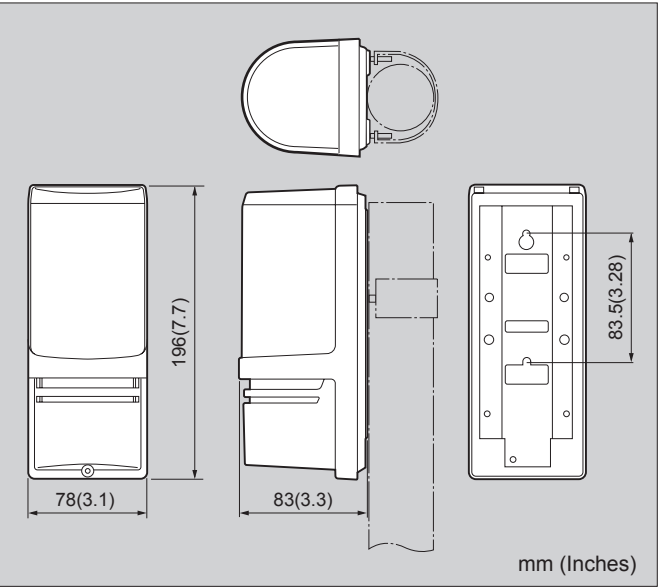
False Alarm Causes	Technology to Solve	AX Function & Features
Lighting & High EMI Disturbances	High EMI Resistance	High Surge Resistiveness Relay & EMI Surge Absorber
Insect Entering into Housing	Sealed Enclosure Housing	IP55
Dew Condensation Fog, Frost & Heavy Rain	High Sensitivity Tolerance Fine Optical Beam Alignment	Ultra High Power Beam Anti-Frost Mechanism Easy Optical Alignment Mechanism Course Alignment LED (AX-ALPHA Series Only) Automatic Gain Control
Birds or Flying Objects	Size Analysis	Twin Synchronization Pulsed Beams

SPECIFICATIONS

Model	AX-330PLUS
Detectionmethod	Infrared Photoelectric
Coverage	100m
Maximum arrival distance	1000m
Beam characteristics	Pulsed infrared
Interruption period	50 to 500msec. (Selectable)
Power supply	10.5 to 28V DC
Current consumption (Transmitter+Receiver)	Normal operation 46mA max.
Alarm period	2sec. (±1) nominal
Alarm output	Form C Relay (28V DC 0.2A max.)
Tamper switch	N.C. opens when cover is removed (Receiver Only)
Operating temperature	-25°C 55°C (-13°F 131°F)
Operating humidity	95% max.
Alignment angle	±5°Vertical, ±90° Horizontal
Mounting	Wall or Pole
Weight	1040g (36.7oz.) (Both Transmitter and Receiver)

Specifications and designs are subject to change without prior notice.

DIMENSIONS

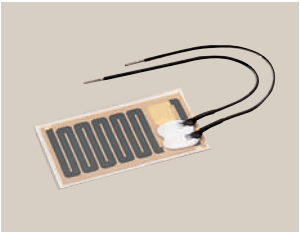


OPTIONS

- BC-2: Back Cover

Back Cover to conceal the Pole
- HU-2: Heating Unit

Heating Unit for severe low temperature conditions



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NOTE: This unit is designed to detect an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot assume responsibility for theft or damages, should it occur.



PHOTOELECTRIC DETECTOR

AX-330PLUS



Photoelectric detectors improved with OPTEX innovation to provide advanced performance in outdoor detection.

OPTEX Photoelectric Detectors with Innovative Features for Easy Installation Provide Stable Performance against False Alarms for More Effective Outdoor Detection and Non Security Applications.

The OPTEX AX-330PLUS Photoelectric Detector Series is the next step in Outdoor Detection and will satisfy all the needs of both users and installers. OPTEX unique technology and design provide a wide range of functions that greatly simplify installation and maintain reliable performance even in many adverse weather or environmental conditions.



OPTEX CO., LTD. (JAPAN)
URL: <http://www.optex.net/>

OPTEX INC. (U.S.)
URL: <http://www.optexamerica.com/>

OPTEX DO BRASIL LTDA. (Brazil)
URL: <http://www.optex.net/br/es/sec/>

OPTEX (EUROPE) LTD. / EMEA HQ (U.K.)
URL: <http://www.optexeurope.com/>

OPTEX TECHNOLOGIES B.V. (The Netherlands)
URL: <http://www.optex.eu/>

OPTEX SECURITY SAS (France)
URL: <http://www.optex-security.com/>

OPTEX SECURITY Sp.z o.o. (Poland)
URL: <http://www.optex.com.pl/>

OPTEX PINNACLE INDIA, PVT., LTD. (India)
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OPTEX KOREA CO.,LTD. (Korea)
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OPTEX (DONGGUAN) CO.,LTD. SHANGHAI OFFICE (China)
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OPTEX (Thailand) CO., LTD. (Thailand)
URL: <http://www.optex.net/th/th>



Reliable Technology from OPTEX Provides All the Outdoor Security You Need

1. Quick optical alignment

Alarm indication LED in viewfinder

The optical alignment condition is visually displayed by using an alarm indication LED which is visible on the front of the unit and can also be seen through the viewfinder.

- LED is "ON"**
↓
: Beam energy from the transmitter is not reaching the receiver.
- LED is "OFF"**
↓
: Beam energy from transmitter is reaching the receiver.
- Fine Adjustment**



(Note: Fine adjustment must always be done with a Volt Meter - See Installation Instructions.)

Clear viewfinder visibility

A conveniently placed viewfinder allows for easy alignment even in some of the most difficult mounting situations.

Fine angle adjustment for alignment

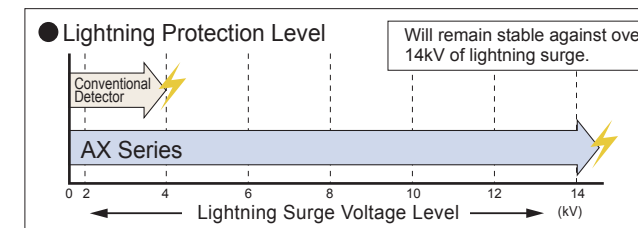
The rotating dial allows the installer to finely adjust the beam easily either horizontally ($180^\circ/\pm 90^\circ$) or vertically ($10^\circ/\pm 5^\circ$) with or without the use of a screwdriver (finger adjustable).



2. Reliable performance

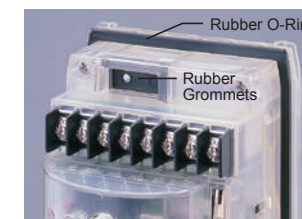
Lightning & surge protection

An improved EMI surge absorber and high surge resistiveness relay will maintain stable operation even in the most lightning prone areas.



Rain, dust & insect protection

The Rubber O-Ring & Rubber Grommets used in the AX-300PLUS Series prevent rain, dust and tiny insects from adversely affecting performance. (IP55)



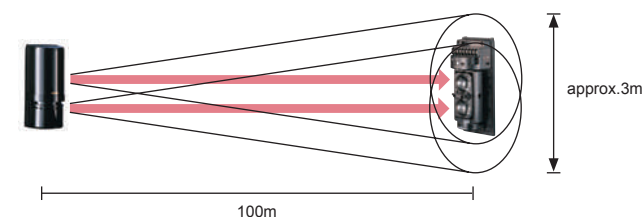
*Some product parts in the photo on the right appear transparent for photographic purposes.

Frost & dew protection

An anti-frost and convex visor design is incorporated to protect the detector from effect of frost & dew.

High grade aspherical lens

The high grade aspherical lens creates more sharply defined & precise infrared beams compared to ordinary fresnel lenses.



Twin synchronized pulsed beams designed for greater stability

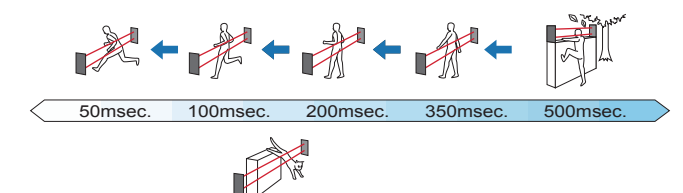
"And Gate" dual beams require simultaneous interruption of both beams to trigger an activation. No activation is generated when a bird or falling leaves break just one beam.

A.G.C. (Automatic gain control) circuit

The A.G.C. Circuit continually monitors for gradual changes in the signal's strength caused by changing weather conditions. It adjusts the sensitivity accordingly to maintain the proper signal level for the current environmental conditions.

Adjustable beam interruption period

The Beam Interruption Time (the amount of time a beam must be broken for an alarm to occur) can be adjusted to fit any application. For example, when protecting a wall or fence, a longer interruption time will catch intruders, but let jumping cats pass through without setting off an alarm.



Form C relay providing more flexibility

3. Design durability

Highly durable & heat-resistant housing cover & chassis

The housing cover & chassis provide higher durability against shocks, high temperatures and many other harsh environmental conditions.

Stainless steel screws & back plate