

# PHOTOELECTRIC DETECTOR

A30/60/80/100



**The A series are dual photoelectric detectors designed to provide reliable perimeter security both indoors and outdoors.**

It consists of separate transmitters and receivers. The transmitter emits invisible infrared beams with changing frequencies to the receiver. The frequencies change in a certain range to protect beams from disturbance.

The changing frequencies feature can also help cutpower consumption to extend the detectors life span.

Quick alignment system is built-in to speed up accurate and reliable positioning  
This detector uses 2 pulsed infrared beams that are designed to activate an alarm only when both 2 beams are simultaneously blocked.

# A30/60/80/100 Series



## Design Durability

Highly Durable and Heat-Resistant Housing Cover and Chassis. The housing cover and chassis provide higher durability against shocks, high temperatures, and many other harsh environmental conditions.

## Frost and Dew Protection

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

## High Grade Aspherical Lens

The high grade Aspherical lens creates more sharply defined and 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

## 99.5% Beam Blocking stability

Stable operation is maintained with as much as 99.5% of the beam's energy blocked by heavy rain, dust storms, Snow or fog.

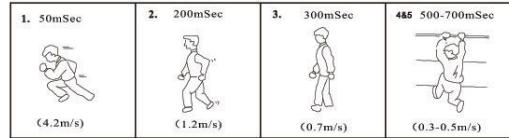
## SPECIFICATIONS

MODEL	A30	A60	A80	A100	
Detection method	Infrared photoelectric				
Range	Outdoor	30m	60m	80m	100m
	Indoor	90m	180m	240m	300m
Beam characteristics	Pulsed infrared dual beams				
Interruption period	50~700msec(selectable)				
Power input	DC12~24V/AC11~18V				
Current consumption	40mA max	55mA max	65mA max	65mA max	
Alarm period	2Sec(±1)nominal				
Alarm output	Form C relay (AC/DC30V 0.5A max)				
Tamper switch	N.C.Opens when cover is removed (receiver only)				
Operating temperature	-25°C~+55°C				
Environment humidity	95% max				
Alignment angle	±5° vertical, ±90° horizontal				
Mounting	Wall or pole				
Weight	650g(Both transmitter and receiver)				
Appearance	PC Resin(Black)				

Specifications and design are subject to change without prior notice.

## 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.



## Quick optical and voltage alignment to speed up positioning

A conveniently placed viewfinder allows for easy alignment even in some of the most difficult mounting situations. In the receiver there are two jacks indicating for voltage measuring. Fine the beam and use a voltmeter to measure the voltage until the suggested value appears. The rotating dial and voltage measuring allows the installer to finely adjust the beam easily horizontally ( $180^\circ \pm 90^\circ$ ) or vertically ( $10^\circ \pm 5^\circ$ ).

## 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.

## DIMENSIONS

