

# PHOTOELECTRIC DETECTOR U30 , U60 , U80



The U series are dual photoelectric detectors designed to provide reliable perimeter security both indoors and outdoors. The unique integrated structure design is very convenient for cabling, installation and alignment. Sealed enclosure housing for dustproof and waterproof.

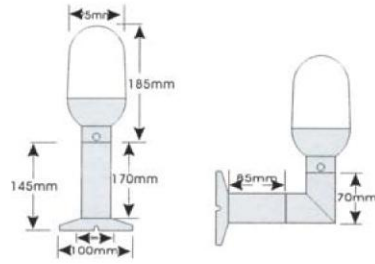
It consists of separate transmitters and receivers. The transmitter emits invisible infrared beams with changing frequencies to the receiver. The frequencies change in a certain range to protect beams from disturbance.

The changing frequencies feature can also help cut power 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.

# U30/60/80 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.

- **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**

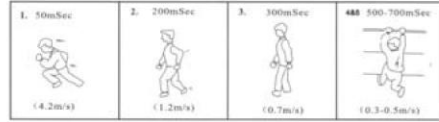
"And Gate" dual beams require simultaneous interruption of both beams to trigger an activation. No activation is generated when a bird or falling leaves break just one beam

- **99.5% Beam Blocking stability**

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

- **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**

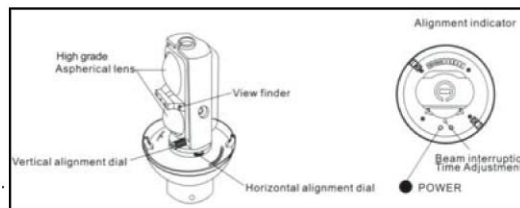
A conveniently placed viewfinder allows for easy alignment even in some of the most difficult mounting situations. Finely adjust the beam easily horizontally (360°) or vertically (10°±5°) until 5 of the 10 indicators light. This means the detectors can work stubby. Fine to light 7 indicators is recommended.

- **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



## SPECIFICATIONS

MODEL		U30	U60	U80
Detection method		Infrared photoelectric		
Range	Outdoor	30m	60m	80m
	Indoor	90m	180m	240m
Beam characteristics		Pulsed infrared dual beams		
Interruption period		50 – 700msec(selectable)		
Power Input		DC13.8 ~ 24V/AC11 ~ 18V		
Current consumption		40mA max	55mA max	55mA max
Alarm period		2 Sec(±1) nominal		
Alarm output		Form C relay (AC/DC30V 0.5Amax)		
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 , 360° horizontal		
Mounting		Wall or pole		
Weight		1000g(Both transmitter and receiver)		
Appearance		PC Resin (Black)		

Specifications and design are subject to change without prior notice.

