



ISO 9001  
JQA-2292



ISO 14001  
E004J0029

# PHOTOELECTRIC DETECTORS

NR30TD Outdoor 30m / Indoor 60m

NR60TD Outdoor 60m / Indoor 120m

NR90TD Outdoor 90m / Indoor 180m

## ATSUMI

# Advanced Security Technology

*For Our Future*



## Digital Controlled Reliable Photoelectric Twin Beam Detector

ATSUMI provides the High Reliable NR30/60/90TD Series with the Long Experienced Analog and CPU based Digital Technologies. Together with the Advanced Mechanical design, offering easy installation and long term stability to satisfy the High level Demand.

# PHOTOELECTRIC DETECTORS NR30/60/90TD

## Features

### 1. Digital Controlled Electrical Circuit

Atsumi Products are all equipped with the High Reliable Digital Controlled Electrical Circuit based on the Long Experience Technology. It has condensed the high reliable and many features in this small units.

### 2. Dual Modulation

Beam Rays are Modulated by Two Frequencies. This technology improves the external light compensation and prevention from Electric Magnetic Interference.

### 3. New Designed Spherical Fresnel Lens

The high grade spherical fresnel lens makes the sharp focused beam ray at long distance, therefore it achieves 100% sensitivity allowance and other important features.

### 4. Easy Optical Alignment

- Three alignment method are available and it achieves quick and easy installation.
- (1) For the initial rough alignment, the scope is useful.
  - (2) For the fine alignment, Three LEDs show the alignment condition.
  - (3) For the other fine alignment, Volt Meter Output shows the alignment condition
  - (4) Mechanically, the Vertical and Horizontal alignment screws are useful for fine adjustment.

### 5. Mechanical Protection Structure

The Rubber O-Ring and Grommet with precise mechanical structure achieve IP54 and prevent Rain, Dust and Insects from coming inside. (IP55 with Pole Cover)

### 6. High Performance Lens

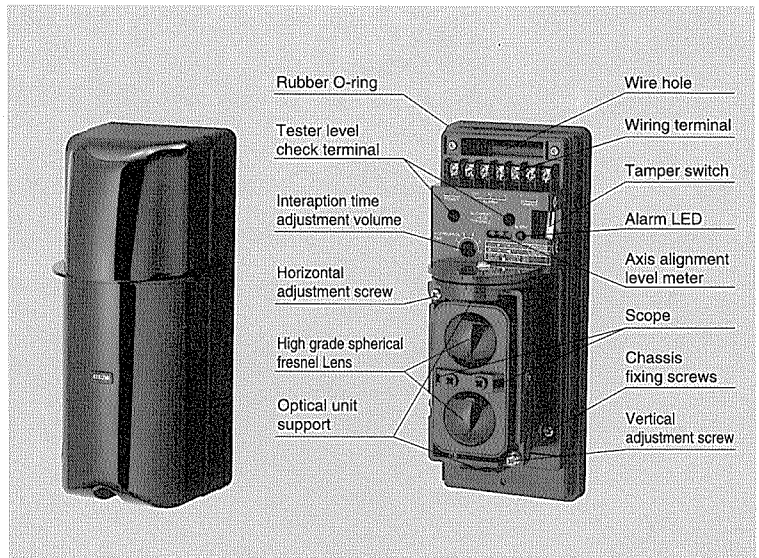
Newly Designed High Performance Lens makes Sharp Focused Beams and achieves Overall performance at the rated distance.

### 7. Knockout Structure

Unique Knockout structure keep the IP rate when making wiring hole. It eases the installation too.

### 8. Others

- \* AGC (Automatic Gain Control)
- \* Adjustable Beam interruption time
- \* Two supports for stabilizing the optical unit.
- \* Twin beams offer stable operation.
- \* 99% Beam blocking is acceptable.
- \* High grade Plastic and Metal material for Harsh Environment.

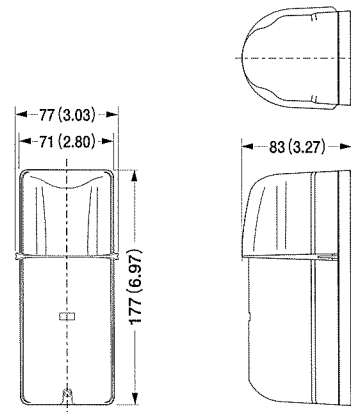


## Specifications

Model	NR30/60/90TD
Outdoor Range	30m / 60m / 90m
Indoor Range	60m / 120m / 180m
Sensitivity Allowance	100 times
Beam Composition	Twin Beam
Beam Modulation	LED pulsed beam, Dual modulation
Voltage	10.5-28V
Current draw	54 / 58 / 63 mA
Interruption time	50msec~500msec
Alarm output	1c, 30VDC 0.1A, Retention time 3 Sec
Tamper output	1b, 30VDC 0.1A, When Cover is opened
Weight	760 g
Operating Temperature	-25~+60 °C
Alignment Angle	±90° (Horizontal), ±5° (Vertical)
Alignment (rough adjustment)	Scope
Alignment (fine adjustment)	3 LED displays & Voltmeter
Fine adjustment Mechanism	Horizontally and Vertically by Screws
IP rate	IP54 (IP55 with Pole Cover)
Dimensions	77×177×83

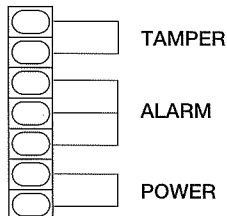
## Dimensions

mm (inch)

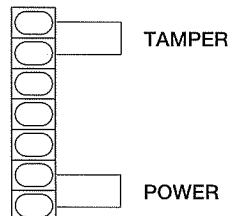


## Terminals

### RECEIVER



### TRANSMITTER



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