

# PHOTOELECTRIC BEAM SENSOR

## (INTELLIGENT QUAD SERIES)



**PB-IN- 50HFA** : Outdoor 165 ft. ( 50m)

**PB-IN-100HFA** : Outdoor 330 ft. (100m)

**PB-IN-200HFA** : Outdoor 660 ft. (200m)



The TAKEX intelligent "QUAD" photoelectric beam is especially designed for outdoor protection. Unique Quad beams are synchronized to work together to reinforce the range and stability in severe weather conditions. The PB-IN-HFA series beams are equipped with many features which provide a wide choice of field selectable options. These options result in considerable flexibility for a variety of application requirements.

### 4 SYNCHRONIZED HIGH POWER INFRARED[PATENTED]

- \* 4 beams are "and-gated", which help to prevent false alarms from falling leaves and small animals.
- \* The active infrared transmission is exceptionally strong with a maximum arrival distance ten times greater than the specified protection distance.
- \* External light compensation circuit provides excellent tolerance against sun light, automobile head lights, fluorescent light or mercury light.

### FOUR FREQUENCIES SELECTIONS

4 separate choices of frequency avoid cross-talk.

### BEAM TRANSMISSION STRENGTH SELECTION

2 levels of beam transmission strength which can be set to suit the protection distance.

### EASY BEAM ALIGNMENT

- \* Audible signal for alignment [Utility model]  
An alignment tone aids in quick set-up to beams. The tone becomes maximum at peak of beam level.
- \* Sensitivity attenuation LED  
Lights when beam level is attenuated, which shows low sensitivity.
- \* Monitor jack output    \* Target color
- \* Wide adjustment (horizontally  $\pm 90^\circ$  ,vertically  $\pm 10^\circ$  )

### RoHS CERTIFIED COMPLIANT



Environment friendly. Free from Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyl, Polybrominated diphenyl ether.

### AUTO-GAIN LOCK

Optimal sensitivity gain is automatically set at any coverage distance up to the maximum protection distance. Auto-Gain lock is easily confirmed by sound check.

### PROGRAMMED AGC

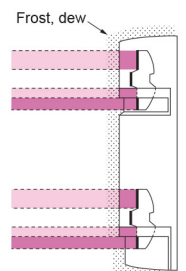
Sensitivity is automatically increased in bad weather to contend with fog, heavy rain, frost or snow.

### ALARM MEMORY

Alarm memory LED located on receiver can be automatically reset (flickering 5 min. after an alarm and auto-reset 55 min. after that) or manually controlled.

### PROTECTION AGAINST FROST/DEW

As a special hood is attached on sensor cover, beam protection continues without interruption even when the cover is screened by frost or dew.



### ENVIRONMENTAL MODULE BUILT-IN

Environmental trouble signal is sent when beam reception level is reduced below an acceptable level.

### OTHER FEATURES

- \* Tamper output (transmitter and receiver)
- \* Polycarbonate cover excellent at anti-shock
- \* Optional accessories

