

PHOTOELECTRIC BEAM SENSOR

“ANTI-CRAWL” HIGH SECURITY PHOTOBEAM
 CE  PB-IN-100AT:Outdoor 100m (330 ft.)



Patent registered(No. 1766439)
 Utility model registered:2
 Utility model pending:3
 Design registered:1

The PULNiX Intelligent-Quad series now has a new member to its product family, the PB-IN-100AT “Anti-crawl” photoelectric beam. This beam has been designed for high security applications where attempts to crawl through a portion of the photobeam create an alarm event instead of no alarm.

Transmitters project double modulated beams that differ in pulse pattern from upper and lower parts.

Through CPU processing, the upper receiver selects the beam from the upper transmitter and the lower receiver selects the beam from the lower transmitter, allowing for an AND-gated or an OR-gated system.

FOUR FREQUENCY SELECTION

4 separate choices of frequency avoids cross-talk in stacked or long linear installations.

DUAL RESPONSE TIME SYSTEM Patent registered

Two individual response times are provided for separate adjustment of AND/OR gates.

This enables detection of intruders, but minimizes false alarms.

BEAM TRANSMISSION STRENGTH SELECTION

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

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.

EASY BEAM ALIGNMENT

Audible signal for alignment [Utility model] ... An alignment tone aids in quick set-up beams. The tone becomes maximum at peak of beam level. Beam selector ... Upper and lower beam alignment can be adjusted without using a shading plate.

Sensitivity attenuation LED ... Lights when beam level is attenuated, which shows low sensitivity.

Monitor jack output

PROGRAMMED AGC

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

ENVIRONMENTAL MODULE BUILT-IN

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

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.

BASIC OPERATION

The following basic operation is required for the purpose of preventing lost alarms from intrusion by crawling without burdening the system with false alarms via small animals.

* Lower or upper beams interrupted

An alarm is not initiated by instantaneous beam interruption, but an alarm is initiated when the interruption continues during a set response time.

The response time can be tailored to prevent intrusion by crawling while at the same time avoiding false alarms due to small animals.

* ALL beams interrupted

Same as PB-IN-HF series, an alarm is initiated when beam interruption continues during the response time.



