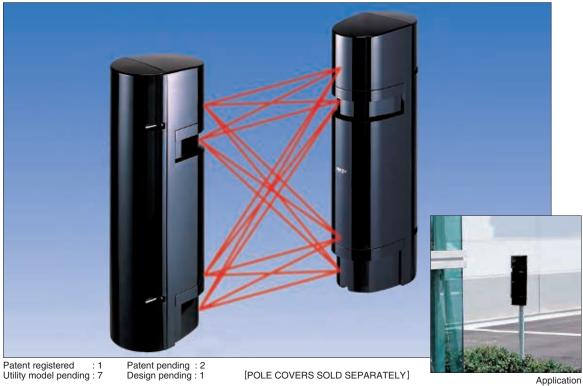
PHOTOELECTRIC BEAM SENSOR



(INTELLIGENT QUAD SERIES)

PB-IN-50HF : Outdoor 165 ft. (50m)
PB-IN-100HF : Outdoor 330 ft. (100m)
PB-IN-200HF : Outdoor 660 ft. (200m)



model pending: 7 Design pending: 1 [POLE COVERS SOLD SEPARATELY] Applic

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-HF 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 helps 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 avoids cross-talk in stacked or long linear installations.

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 [Utillty 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

AUTO-GAIN LOCK

Optimal sensitivity gain is automatically set at any coverage distance up to the maximum protection distance. Aut-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.

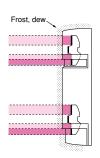
PROTECTION AGAINST FROST/DEW

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

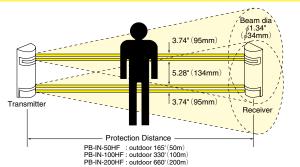
Environmental trouble signal is sent when beam reception level is reduced below an acceptable level.

- * Wide adjustment (horizontally ±90°, vertically ±10°)
- * Tamper output
- * Polycarbonate cover excellent at antishock
- * Optional accessories

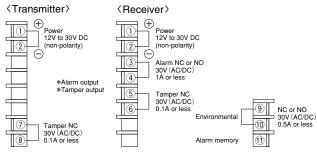


PHOTOELECTRIC BEAM SENSOR

■COVERAGE



TERMINAL ARRANGEMENT



*Relay shown in energised (non-alarm) condition

■OPTIONAL

- Pole KP-100 (100cm, 2pcs./set) KP-150 (150cm, 2pcs./set)
- Pole cover BP-200F (2pcs./set)
- Housing case KH-120 (1pce.)







- Flush mount attachment BU-50F (1pce.) (with stainless plate)
- Heater (2pcs./set)
 HTF-100
 (100VAC 200mA/set)
 HTF-24
- HTF-24 (24VDC·860mA/set) (Temperature control switch)

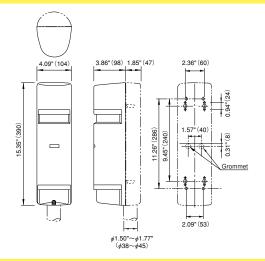






 Pole side cover BS-50F (1pce.)

■EXTERNAL DIMENSIONS (Unit:inch(mm))



■SPECIFICATIONS

Product name	Photoelectric beam sensor		
Model	PB-IN-50HF	PB-IN-100HF	PB-IN-200HF
Detection system	Near infrared beam interruption system (TRRE. 4 beams simultaneous interruption)		
Infrared beam	Double modulation pulsed beams by LED□		
Protection distance	Outdoor 165' (50m) or less:	Outdoor 330' (100m) or less	Outdoor 660' (200m) or less:
Max. arrival distance	Tenfold□ 1650' (500m)□	Tenfold 3300' (1000m)	Tenfold 6600' (2000m)
Response time	50msec. to 700msec. variable (Standard : 50msec.)		
Power supply	□ 12V to 30V DC (non-polarity)□ □		
Current consumption	60mA or less at protection: (max. 95mA or less)	70mA or less at protection (max. 105mA or less)	85mA or less at protection: (max. 120mA or less)
Alarm output	Dry contact relay output 1c Reset : Interruption time + off-delay (approx. 1.5sec) Contact capacity: 30V (AC/DC) 1A or less		
Enviromental output	Dry contact relay : 1a or 1b (selectable)□ Contact operation : Output when weather condition gets worse□ Contact capacity: 30V (AC/DC) 1A or less□		
Tamper output	Dry contact relay : 1b□ Contact operation : Output when receiver cover is detached□ Contact capacity: 30V (AC/DC) 1A or less□		
Alarm LED	Red LED (receiver) lights when an alarm is intiated		
Sensitivity attenuation LED	Red LED (receiver) lights when beam reception is attenuated		
Functions	Modulated beam frequancy selection, Tone indicator, Environmental module, Beam power selection, Alarm memory indication, Programmed AGC, Auto-gain lock function, Monitor jack.		
Beam adjustment	Horizontal : ±90°C, Vertical : ±10°□		
Ambient temperature range	-31°F to +151°F (-35°C to +66°C)□		
Mounting position	Outdoor		
Wiring	Terminals□		
Weight	Transmitter : 42oz (1200g)□ Receiver : 45.5oz (1300g)□		
Appearance	PC resin (wine red)		

The specifications are subject to change without notice.

Please Note: This sensor is designed to detect intrusion and to initiate an alarm; it is not a burglary or a crime preventing device.

TAKEX is not responsible for damage, injury or losses caused by accident, theft, Acts of God (including inductive surge by lighting), abuse, misuse, abnormal usage, faulty installation or improper maintenance.

TAKEX

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