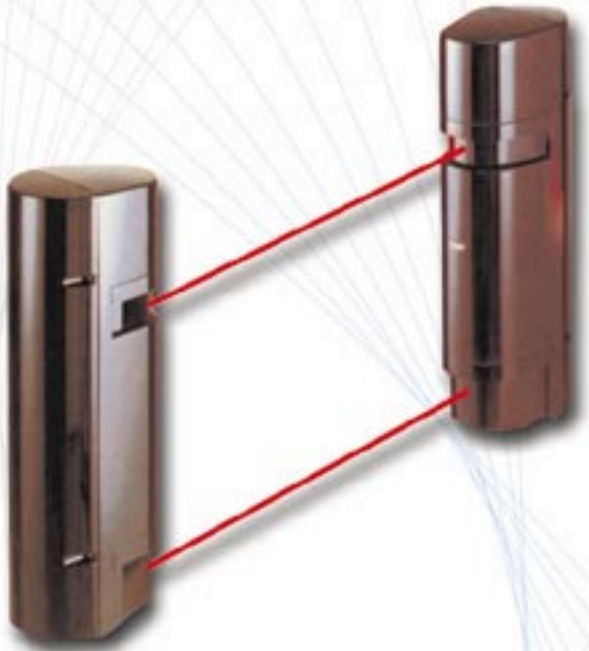


PHOTOELECTRIC BEAM SENSOR

PB-100ST Outdoor 330ft (100m)

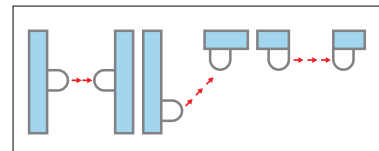


TAKEX[®]

The TAKEX "TWIN" photoelectric beam is designed to meet the highest quality and reliability standards in photoelectric beam intrusion detection. Unique twin beams are synchronised in order to reinforce the range and stability in severe weather conditions. The system has a rotary optical system for easy installation and the special optical mirror design aids in proper alignment.

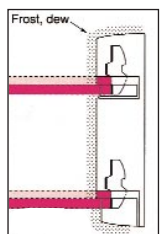
Features

- **HIGH RELIABILITY**
Synchronised twin beams reduce false alarms caused by flying birds and falling leaves.
- **EXTERNAL LIGHT PROTECTION**
Trouble-free condition in 50,000 lux illumination fluctuation is assured by an external light compensation filter circuit, specially designed, that cuts visible rays effectively. Excellent tolerance against sunlight, headlights, fluorescent or mercury light.
- **EASY BEAM ALIGNMENT**
The special viewfinder allows fast aiming and assures good alignment. Equipped with monitor jack to check sensitivity. Also there is a sensitivity attenuation LED and monitor jack output.
- **ROTARY OPTICAL SYSTEM**
The optical system of both the transmitter and receiver can be rotated a full 180° which allows side aiming. Therefore the units do not have to be mounted face-to-face and the beam direction cannot be discerned by simple observation.



- **INSECT PROTECTION**
A unique rubber grommet prevents insects from entering through the wiring hole.
- **OTHER FEATURES**
 - Automatic Gain Control circuit loaded
 - Wide adjustment (horizontally $\pm 90^\circ$, vertical $\pm 10^\circ$)
 - Tamper output for high security. (Receiver)
 - Polycarbonate cover excellent at anti-shock
- **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.

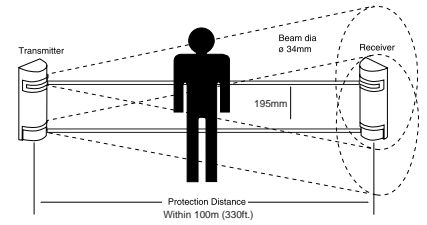


Specifications

Model	Photoelectric Beam Sensor
Model Number	PB-100ST
Detection System	Simultaneous breaking of 2 beams
Infrared Beam	LED pulsed beam, Double modulation
Protection Distance	Outdoor 100m (330')
Max. Beam Range	1000m (3300')
Response Time	50 msec. to 700msec. (variable at pot)
Supply Voltage	10V to 30V DC (non-polarity)
Current Consumption	80mA or less
Alarm Output	Dry contact relay output form C Contact action: Interruption time+delay time (1 to 3 sec.) Contact capacity : 30V AC/DC, 0.5A or less Dry contact relay : N/C
Tamper Output	Action: Activated when cover is detached Contact capacity : 30V AC/DC, 0.1A or less
Alarm LED	Red LED (receiver) On: when alarm is initiated
Attenuation LED	Red LED (receiver) On: when beam is attenuated
Functions	Monitor jack output, AGC circuit, frost proof cover
Ambient Temperature	-25°C to +60°C (-13°F to +140°F)
Installation Places	Outdoor
Wiring Method	Terminals
Weight	Transmitter/Receiver: 1200g (42 oz.) each
Appearance	PC resin (wine red)

Due to ongoing product improvements, specifications may change without notice.

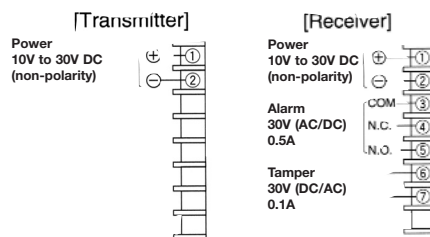
Coverage



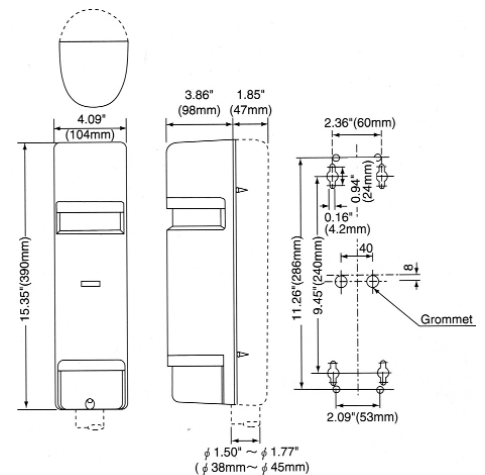
Optional

- Pole
KP-100 (100cm, 2pcs/set)
KP-150 (150cm, 2pcs/set)
- Pole Cover
BP-200F (2pcs/set)
- Flush mount attachment
BU-50F (1pce)
(with stainless plate)
- Pole Side Cover
BS-50F (1pce)
- Housing case
KH-120 (1pce)
- Heater (2pcs./set)
HTF-100 (100VAC, 200mA/set)
HTF-24 (24VDC, 860mA/set)
(Temperature control switch)

Terminal Arrangement



External Dimensions



Note : This sensor is designed to detect intrusion and to initiate alarm, it is not a burglary-preventing device. TAKEX is not responsible for damage, injury or losses caused by accident, theft, Acts of God (including inductive surge by lightning), abuse, misuse, abnormal usage, faulty installation or improper maintenance.



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PB-100ST DS-12 03
(CRI-158)