

PHOTOELECTRIC BEAM SENSOR

The award of the Director General of Japanese Technological Agency

- PXB-50HF** OUTDOOR 165ft (50m)
- PXB-100HF** OUTDOOR 330ft (100m)
- PXB-200HF** OUTDOOR 660ft (200m)



Factory



Airport



Home



Parking



Power Plant

PXB

The Choice of Professionals

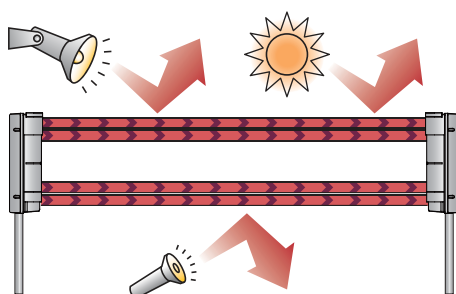
PXB-50HF	OUTDOOR 165ft (50m)
PXB-100HF	OUTDOOR 330ft (100m)
PXB-200HF	OUTDOOR 660ft (200m)

High Performance with Reliability and Stability



DOUBLE MODULATION

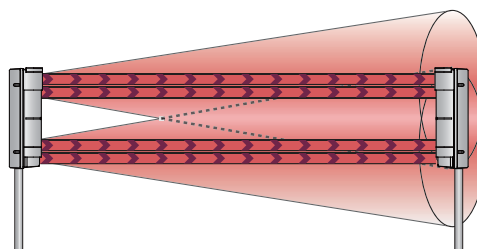
Double modulated beams are designed to distinguish the difference between external light sources. It increases the reliability of outdoor systems.



QUAD HIGH POWER BEAM

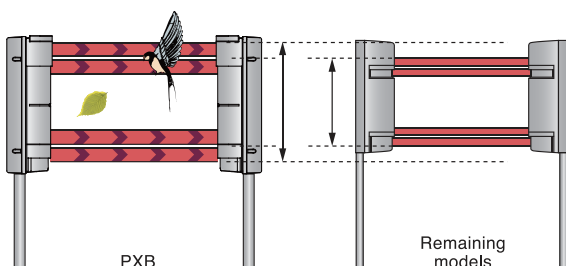
The beam power is 100 times of the minimum requirement. The beam distance is 10 times of the described specification.

This high power beam has greater reliability against harsh conditions like fog, snow & heavy rain.



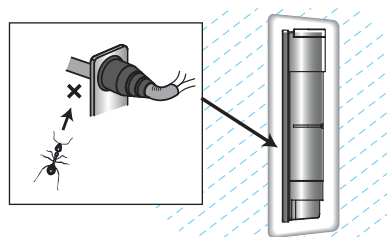
WIDE BEAM

The pitch between upper and lower beam is wider than previous models. False alarm by birds and falling leaves are drastically reduced.



INSECT / WATER PREVENTION

Anti-insect bushing and special wadding enable IP65.



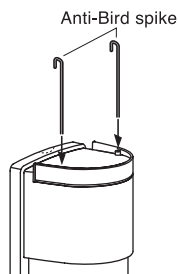


Receiver



ANTI-BIRD SPIKE

Keeps birds and small animals away from the sensor, helping to reduce false alarms.



DRIP-PROOF HOUSING

Helps prevent rain and snow from streaming down the front side of housing, avoiding false alarms.

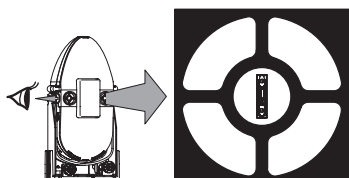


For speedy and easier installations



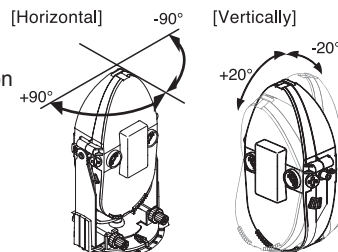
DUAL RING SIGHT

Enables better and clearer view for easy beam alignment.



INCREASED ANGLE ADJUSTMENT ALLOWANCE

Vertically $\pm 20^\circ$ compared with previous models. This provides greater flexibility when installation of beams is on a slope.



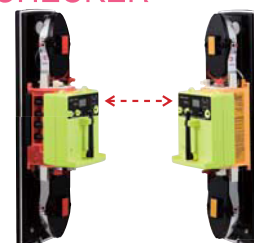
TARGET COLOR

The vivid color of the internal structure can be recognized easily from the far end during the beam alignment procedure. The color differs between a transmitter and a receiver which makes the visual alignment process easier.

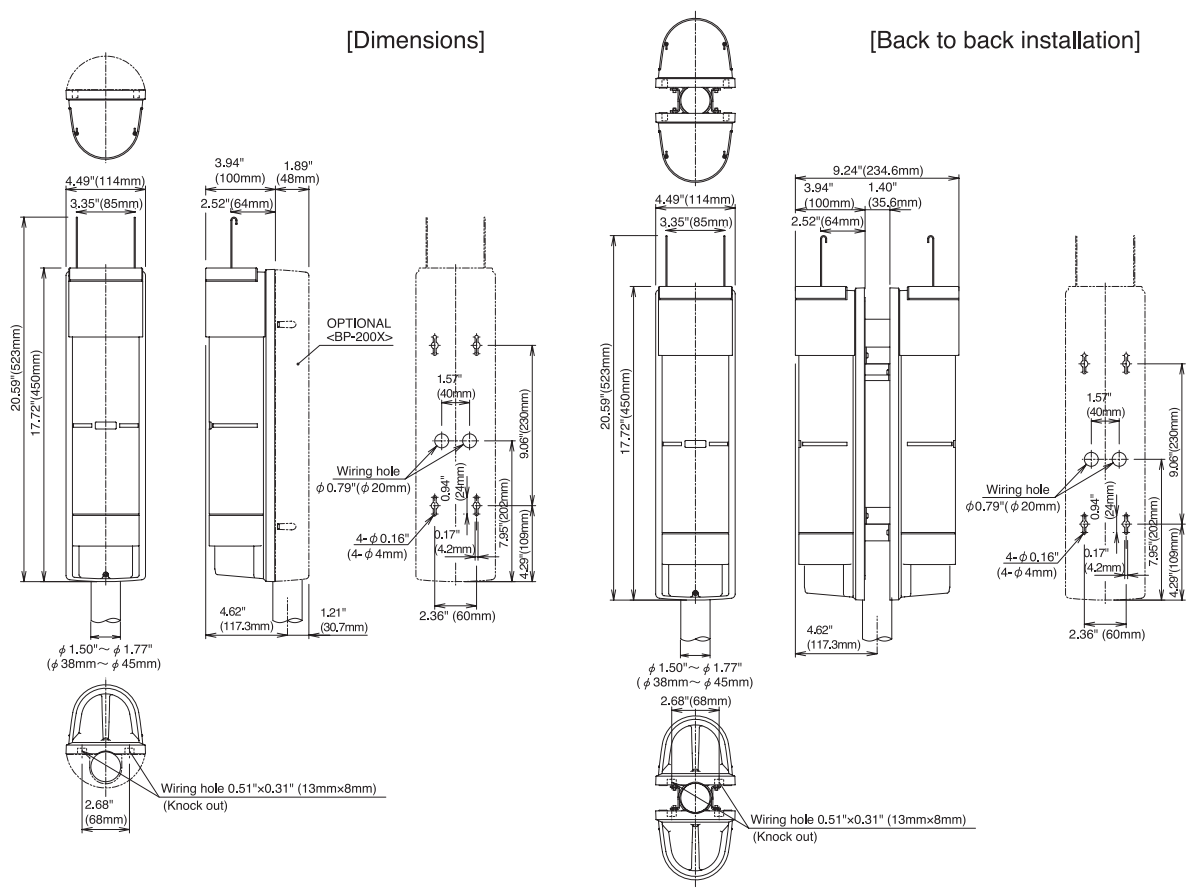


WIRELESS ALIGNMENT CHECKER

Enables easy and accurate beam alignment. (Sold separately)

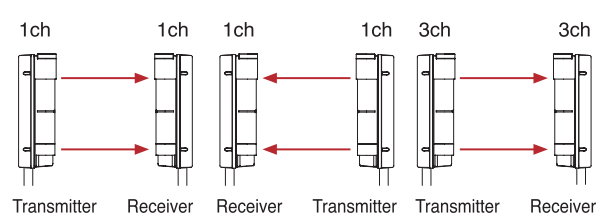


EXTERNAL DIMENSIONS

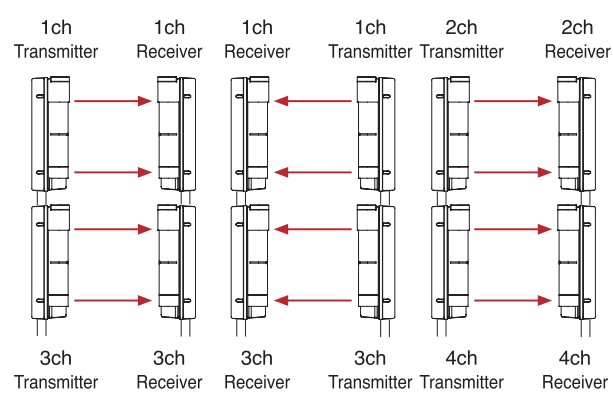


SYSTEM OPERATION

● Single stacking

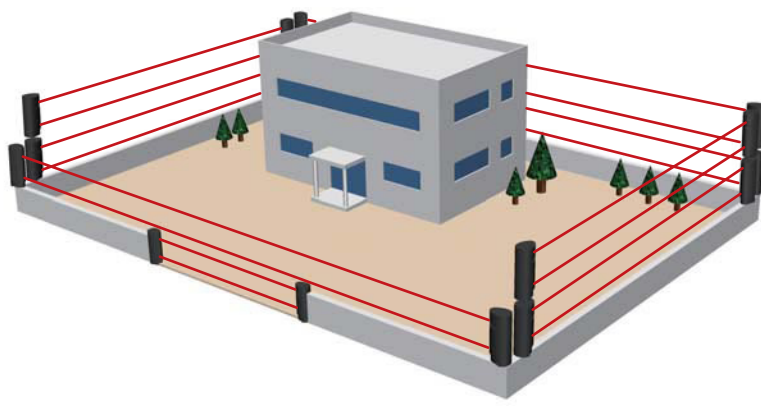


● Double stacking



[Installation example]

Photoelectric perimeter protects the entry to important facilities. The flexible installation of single or double stacking provides a high level of security.



SPECIFICATIONS

Model	PXB-50HF	PXB-100HF	PXB-200HF
Detection system	Near infrared pulsed beam interruption system (TR-RE 4 beam simultaneous interruption)		
Infrared beam	Double modulation pulsed beam by LED		
Protection distance	Outdoor 165' (50m) or less	Outdoor 330' (100m) or less	Outdoor 660' (200m) or less
Max. arrival distance	1650' (500m)	3300' (1000m)	6600' (2000m)
Response time	0.05sec. to 0.7sec. (Variable at pot)		
Power supply	12 to 30V DC (Non-polarity)		
Current consumption	30mA or less	32mA or less	34mA or less
Alarm output	Dry contact relay output Form C Contact action : Interruption time(Min.2sec.) Contact capacity : 30V (AC/DC) 1A (resistive load) Protective resistor		
Environmental output	Dry contact relay output Form C Action : Activated when weather condition gets worse Contact capacity : 30V (AC/DC) 1A (resistive load) Protective resistor		
Tamper output	Dry contact relay (N.C.) Action : Activated when cover is detached Contact capacity : 30V (AC/DC) 0.1A (resistive load) Protective resistor		
Alarm LED	Red LED (Receiver) ON : when an alarm is initiated		
Attenuation LED	Red LED (Receiver) ON : when beam is attenuated		
Ambient temperature range	-31°F to +151°F (-35°C to +66°C)		
Beam adjustment	Horizontal : ±90°, Vertical : ±20°		
Functions	Modulated beam frequency selection, Tone indicator, Environmental module Beam power selection, Transmitting power adjustment, Alarm memory indication, Programmed AGC, Auto-gain lock function, Monitor jack, Tamper, Response time adjustment, Upper / Lower beam switch, Wireless checker		
Mounting positions	Outdoor, Indoor		
Wiring	Terminals		
Weight	Transmitter : 49oz (1400g) Receiver : 51.5oz (1470g)		
Appearance	PC resin (wine red)		
Accessories included	Pole attachment, Anti-Bird spike, Screws, Instruction manual		

Please Note : This sensor is designed to detect intrusion and to initiate an 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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