



PIPS-200/E QUAD BEAM INFRARED BARRIER

RANGE 200 M

Read the instructions contained within this manual carefully to ensure a proper installation.

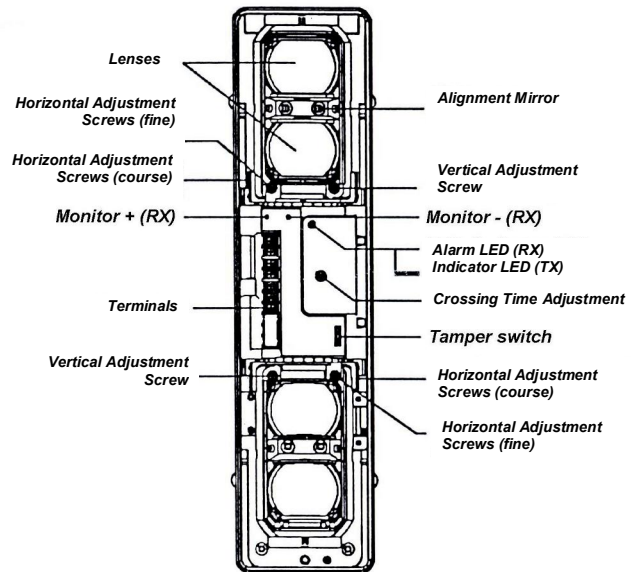
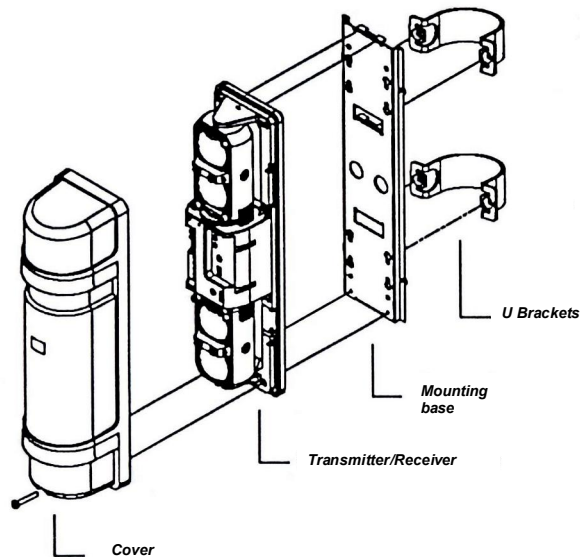
NOTE

This system is designed to detect an intrusion and activate an alarm, not to prevent the intrusion.

Incorrect use, incorrect installation or poor maintenance can be dangerous.

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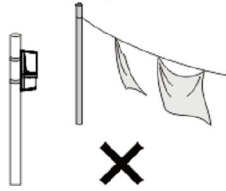
1. DESCRIPTION



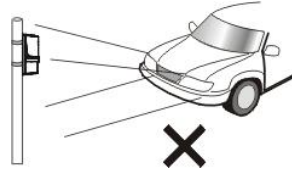
2. TECHNICAL CHARACTERISTICS

Detection Distance	Max 300m internal; Max 200m in external
Power Supply	10.5 . 28 VDC
Detection System	Modulated infrared beams
Crossing Time	50 - 700 ms (variable)
Alarm Output	Clean contact N.O. - N.C., 30VDC, 0.2A
Tamper Output	Clean contact N.O. - N.C., 30VDC, 0.2A
Alarm LED	Red LED (on the receiver). On when the beam is interrupted
Functions	Monitor output, automatic gain control, anti-icing cover.
Angle of adjustment	$\pm 90^\circ$ horizontal, $\pm 10^\circ$ vertical
Operating Temperature	From -25°C to $+55^\circ\text{C}$
Weight	3700 g (transmitter and receiver)
Dimensions	100 x 390 x 100 mm
Standard Accessories	U Brackets (4 pc.) Attenuator sheet (2 pc.) Self-tapping screws 4x20 (8 pc.) Screws 4x30 (8 pc.)

3. INSTALLATION PRECAUTIONS



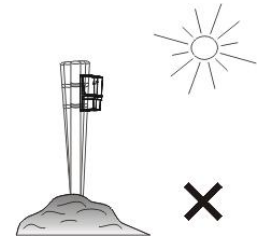
Remove all obstacles (trees, flags, etc) between the transmitter and the receiver.



Avoid direct light from the sun and from car headlights. Strong direct illumination for long periods of time can have a impact on the life of the product.



Do not install the units in a position where they can be covered by splashes of dirty water.



Do not install the units in unstable positions.

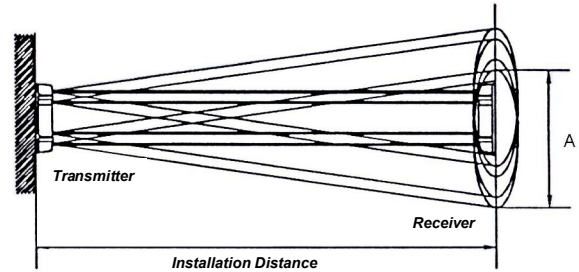
4. DISTANCE AND SIZE OF DETECTION PATTERN

The maximum detection distance is 150 m external and 300m internal.

The size of the detection pattern depends on the distance, based on the following formula:

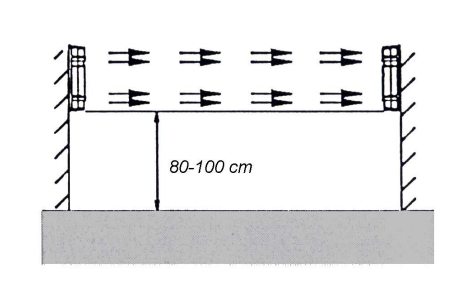
$$\text{Area (A)} = 0.025 \times \text{Distance (L)}$$

L	A
60m	1.5m
100m	2.5m
150m	3.8m



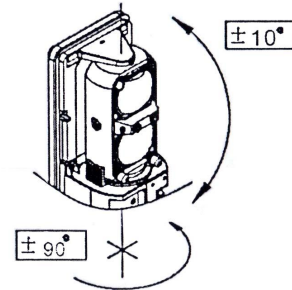
5. INSTALLATION HEIGHT

For correct detection of intrusion the ideal installation height is 80-100 cm.



6. ALIGNMENT ANGLE

Both the transmitter and the receiver can be adjusted by $\pm 90^\circ$ in the horizontal plane and by $\pm 10^\circ$ in the vertical plane.



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