PHOTOELECTRIC BEAM SENSOR
PR-11BE : Outdoor 3.3 to 36ft. (1 to 11m)
Indoor 3.3 to 49ft. (1 to 15m)

The newly developed PR-11BE is suitable for both indoor and outdoor use. This beam is the first reflector beam the security industry has ever developed for outdoor applications.

EASY INSTALLATION
As wiring is needed only on the sensor unit, you can use it in places where it is difficult to wire on two sides. One side wiring makes it possible to save time and cost of installation.

BOTH INDOOR AND OUTDOOR USE IS AVAILABLE
This sensor can be used both inside and outside. 2 types of attenuation sheets (for indoor and outdoor) are attached.

EASY BEAM ALIGNMENT
Beam alignment can be adjusted at the sensor side only. When adjusting beam alignment, utilize view finder, attached attenuation sheets and alarm LED.

EXTERNAL LIGHT PROTECTION
Trouble-free condition in 50,000 lux illumination fluctuation is assured by external light compensation circuit and filter, specially designed, that cuts visible rays effectively. Excellent tolerance against sun light, automobile head light, fluorescent light or mercury light.

ROTARY OPTICAL SYSTEM
Using the adjustments, the lens can move horizontally (±90 degrees) and vertically (±10 degrees) allowing the unit to work in all directions.

RESPONSE TIME ADJUSTMENT
Response time can be adjusted by the response time adjustment potentiometer.

EASY OPERATION CHECK
Alarm LED (red) yield quick operation check.

OPTION ACCESSORIES
L bracket fittings (BL-11) are available for reflector mounting.
BP-60A pole attachment is available for sensor and reflector.
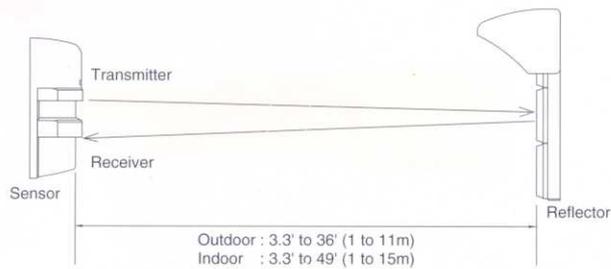
OPTIONAL POWER SUPPLY
A solar power kit is an available option.
Contact your local PULNiX office or distributor for part numbers and technical advice.
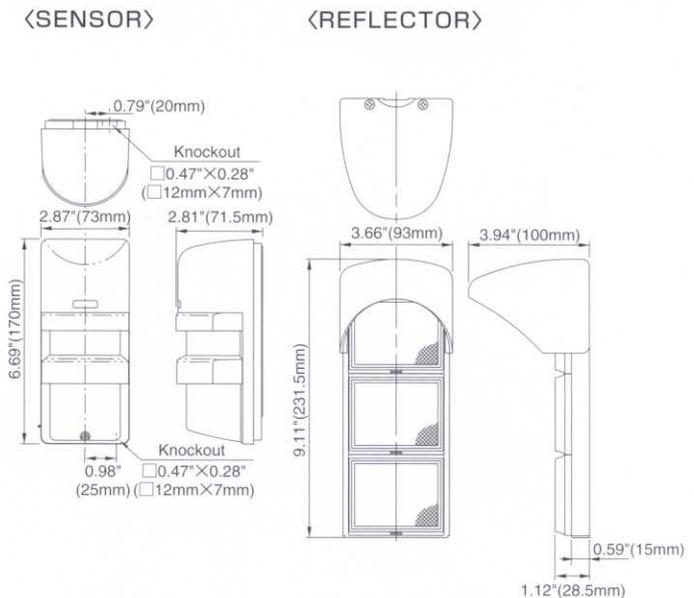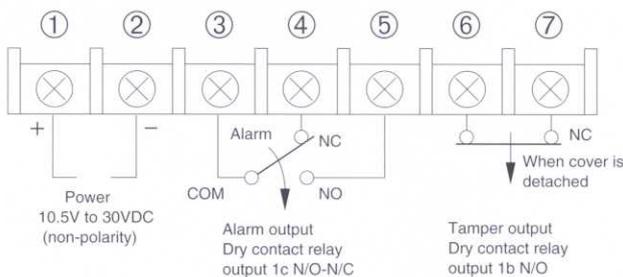
PHOTOELECTRIC BEAM SENSOR

■PROTECTION DISTANCE

Transmitter

Receiver

Sensor

Reflector

Outdoor : 3.3' to 36' (1 to 11m)
Indoor : 3.3' to 49' (1 to 15m)

*Protection distance (between sensor/reflector) should be placed in the rated range.

■TERMINAL CONFIGURATION

① ② ③ ④ ⑤ ⑥ ⑦

+ −   Alarm ○ NC   ○ NC

                When cover is
                detached

COM   NO

Power
10.5V to 30VDC
(non-polarity)

Alarm output
Dry contact relay
output 1c N/O-N/C

Tamper output
Dry contact relay
output 1b N/O

●Wiring distance

Wire size \ Voltage	DC12V	DC24V
AWG 22 (Dia 0.65mm)	500' (150m)	5,610' (1700m)
AWG 20 (Dia 0.8mm)	990' (300m)	9,240' (2800m)
AWG 18 (Dia 1.0mm)	1,490' (450m)	13,860' (4200m)
AWG 17 (Dia 1.1mm)	1,815' (550m)	16,830' (5100m)

Note) Maximum wiring distance when two or more sets are connected is the value above divided by the number of sets.

■OPTIONAL

●L fittings
〈BL-11〉

●Pole attachment
〈BP-60A〉

■EXTERNAL DIMENSIONS (Unit:inch)

〈SENSOR〉   〈REFLECTOR〉

0.79"(20mm)

Knockout
□0.47"×0.28"
(□12mm×7mm)

2.87"(73mm)   2.81"(71.5mm)   3.66"(93mm)   3.94"(100mm)

6.69"(170mm)   9.11"(231.5mm)

Knockout
0.98" □0.47"×0.28"
(25mm) (□12mm×7mm)

0.59"(15mm)

1.12"(28.5mm)

■SPECIFICATIONS

Model	PR-11BE
Detection system	Near infrared beam interruption system. (reflective)
Protection distance	Outdoor 3.3 to 36' (1 to 11m) Indoor 3.3 to 49' (1 to 15m)
Supply voltage	10.5V to 30V DC (Non-polarity)
Current consumption	55mA or less
Alarm output	Dry contact relay from N/O-N/C Contact capacity: 30V (AC/DC) 0.5A or less Relay operation: Interruption time (minimum 2 seconds)
Tamper output	Dry contact relay 1b (N/C) Action: Activated when cover is detached. Contact capacity: 30V (AC/DC) 0.5A or less
Response time	0.05sec to 0.7sec. (Adjustable by potentiometer)
Alarm LED	Red LED ON: when an alarm is initiated
Attenuation LED	Red LED ON: when beam is attenuated.
Functions	Monitor output
Ambient temperature range	−13°F to +140°F (−25℃ to +60℃)
Mounting positions	Outdoor/Indoor
Wiring	Terminals
Weight	Sensor: 15oz (430g) Reflector: 17oz (490g)
Appearance	Sensor: PC resin (wine red) Reflector: acrylic resin (clear), AES resin (black)

●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-preventing device. PULNiX 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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PULNiX

SELF INSTALL - NEED TECHNICAL ASSISTANCE?

OPTION 1: DIRECT WITH THE SERVICE DESK – QUICKEST AND MOST EFFECTIVE METHOD

Submit your enquiry direct with the service desk at – service@automaticsolutions.com.au
The service desk has the most experienced staff in Australia to help with your problem but they need your help.

- Describe your problem in detail and as clearly as possible. Don't forget to include a telephone number.
- Be certain to detail which model or models of you are working with.
- Send photos of the installation – they love photos. The people at the service desk are good but they are even better when they can see the installation. Send photos of the overall scene so they can see the entire installation. Also send photos of the wiring to the control board and any other part of the installation you think is relevant.
- Send video if appropriate. Smartphone's these days take remarkably good video in small file sizes which can be emailed in a moment. If your problem needs a video to show the issue please feel free to send it.
  NOTE: THIS IS BY FAR THE FASTEST AND MOST SUCCESFUL WAY TO SOLVE YOUR PROBLEM
  PHOTOS AND VIDEOS ARE THE NEXT BEST THING TO BEING THERE

OPTION 2: LODGE YOUR ENQUIRY LOCALLY - SLOWER BUT CAN STILL BE EFFECTIVE

Make contact with the store of purchase. Branch staffs are typically not technicians and dependent on their length of service will have varying degrees of technical knowledge. If they cannot help however they will certainly either source help locally from their technicians or make contact with the service technicians on your behalf.

OPTION 3: SERVICE CALL WITH AUTOMATIC SOLUTIONS TECHNICIAN – SLOWEST METHOD

If you fall within the local branch service area it may be possible to book a local technician to look at your installation. Wait times will vary dependent on local workloads. The cost is a service fee which includes the first half hour and the hourly rate thereafter. If any Automatic Solutions provided parts are found to be defective and within warranty these will be provided free of charge.
(NOTE: If you suspect that any parts are defective and within warranty you may wish to consider option 4)

A note on this option: If you decide on this option you will be asked to sign an "authorisation to proceed" which will provide legal authority and payment security. This form has three options available of which only the first two are available to you. The third option is for warranty repairs only for full install customers. Self install customers requiring warranty only service need to refer to option four below.
IMPORTANT: IN SHORT THIS OPTION WILL INCUR CHARGES

OPTION 4: RETURN THE PRODUCT IF BELIEVED TO BE FAULTY

As a self install customer who has purchased product if you believe the product to be faulty rather than an installation or site problem you have the option of returning the product for evaluation and to exercise your right to a replacement, repair or refund as applicable. All returned product is forwarded immediately to the service technicians for evaluation and response. There are two main methods available to return product –

- Direct to the service centre – this is the quickest method as it cuts out the branch delay
- Via the branch of purchase – slower because of the delay at the branch

When choosing this option you need to complete a product return form. This form gives you all the information on procedure involved and where to send to. These are available at the branch of purchase, can be emailed to you (contact your branch), or available here - http://automaticsolutions.com.au/page/warranty.php