

# PHOTOELECTRIC BEAM SENSOR



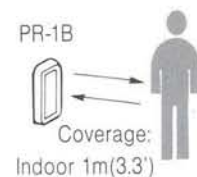
## PR-1B

Indoor 1m(3.3')



***NOT ONLY MOVING OBJECTS BUT ALSO MOTIONLESS OBJECTS CAN BE DETECTED.***

Photoelectric beam sensor PR-1B incorporates near infrared direct reflective detection system and is designed to detect a moving or motionless human size object.



### **DIRECT REFLECTION SYSTEM WITHOUT REFLECTOR**

Direct reflection system eliminates reflector unit that is necessary for current reflection type beam sensor.

### **CONVENIENT SENSITIVITY ADJUSTMENT**

Sensitivity is adjustable to fit for installation sites. (Sensitivity is set at factory so that the sensor can detect human body 1m away.)

### **WIDE APPLICATION**

PR-1B is usable in various applications where the detection of motionless objects is required.

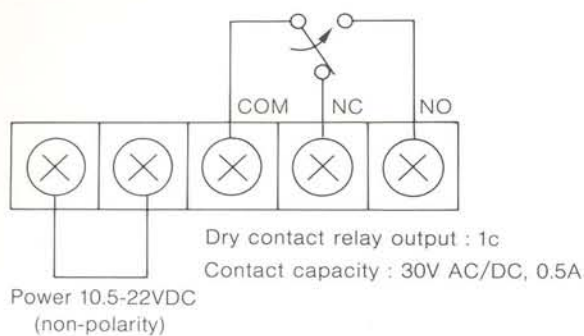
### **EASY INSTALLATION**

Both a transmitter and a receiver are incorporated in one unit. This reduces installation time.

- \* Slim and compact (23.5mm thickness of unit)
- \* Terminal wiring
- \* Flush mount is available with optional attachment BP-5B/BP-5D
- \* Application further expands with optional L fitting BL-5.

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## ■ TERMINAL ARRANGEMENT



## ■ OPTIONAL

- Flush mount attachment  
BP-5B (For simple flush mount,  
Metallic)



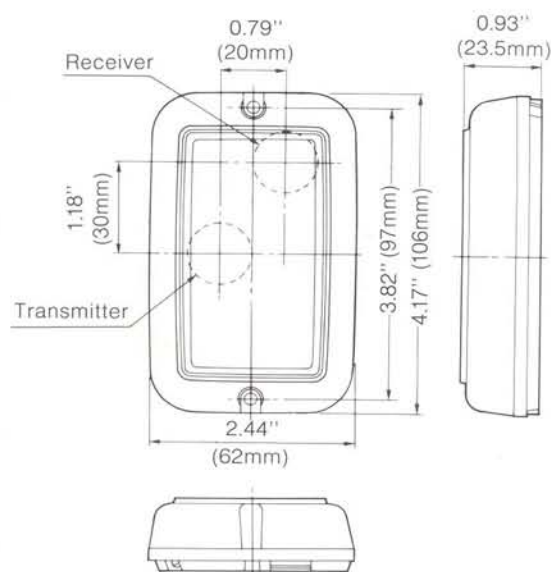
- BP-5D (For 3 outlet box,  
Metallic)



- L fitting  
BL-5



## ■ EXTERNAL DIMENSIONS



## ■ SPECIFICATIONS

Photoelectric beam sensor	
Model	PR-1B
Detection system	Near infrared (Direct reflective detection of motionless objects)
Protection distance	1m(3.3') or less
Response time	100msec. or more
Alarm output	Dry contact relay output: 1c Contact activation: detection time + off delay (approx. 0.5sec.) Contact capacity: 30V AC/DC, 0.5A or less
Supply voltage	10.5V to 22V DC (non-polarity)
Current consumption	60mA or less (at 12VDC)
Ambient temperature range	-20°C to +50°C (-4°F to +122°F)
Mounting position	Indoor
Weight	Approx. 75g (2.6oz)
Appearance	ABS resin (off-white)

Note: The detector will not detect the following;

- 1) Extremely high reflective objects such as lustrous surfaced objects similar to mirror surface
- 2) Extremely low reflective objects  
(ex.) Black wool overcoat, Muffler, Leather goods

Please note : Units should be tested on a regular monthly basis to keep normal function. This sensor is designed to detect intrusion and to initiate an alarm; It is not a burglary-preventing device. PULNiX is not responsible for losses caused by accident or theft.

LEAF 05-02R12-5

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