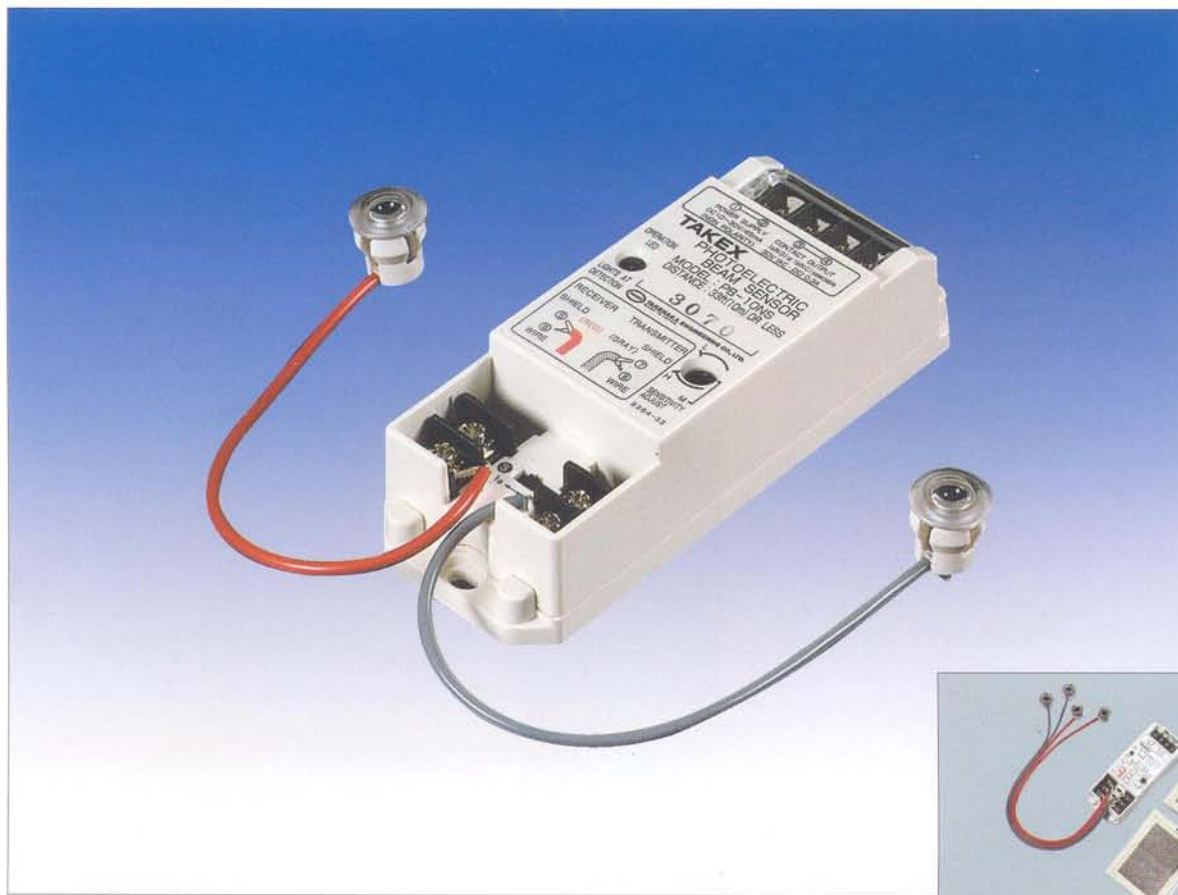
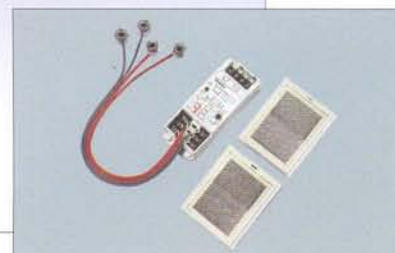


PHOTOELECTRIC BEAM SENSOR

| | |
|---|------------------------|
| PB-10NS(E) :SINGLE BEAM 33ft. (10m) | (N.C./N.O. Selectable) |
| PB-4RNS(E) :SINGLE BEAM REFLECTIVE 13ft. (4m) | (N.C./N.O. Selectable) |
| PB-10TNS(E) :TWIN BEAM 33ft. (10m) | (N.C./N.O. Selectable) |
| PB-4RTNS(E) :TWIN BEAM REFLECTIVE 13ft. (4m) | (N.C./N.O. Selectable) |



PB-10NS(E)



PB-4RTNS(E)

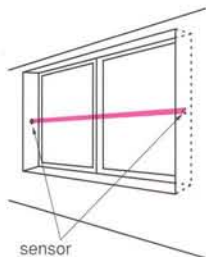
MINIATURIZED PHOTOELECTRIC BEAM SENSOR DOESN'T USE MUCH SPACE FOR INSTALLATION!

DESCRIPTION

MINIATURIZED PHOTOELECTRIC BEAM SENSOR is suitable for use inconspicuously in a wide range of applications. (for CD/ATM machine, motor-driven shutter, window or alley.)

For CD/ATM machine

For window



EASY INSTALLATION

For sensor head, make a preliminary hole and push it only to be installed.

BUILT-IN SENSITIVITY CONTROL

Adjustable to the optimal sensitivity as the installation site demands.

SENSOR CORD CAN BE CUT TO LENGTH

Both of transmitter cord and receiver cord can be cut as the installation site requires.

No need to bundle the extra cord.

4 MODELS AVAILABLE

- PB-10NS(E) Single beam TR/RE type 33ft. (10m)
- PB-4RNS(E) Single beam reflective type 13ft. (4m)
- PB-10TNS(E) Twin beam TR/RE type 33ft. (10m)
- PB-4RTNS(E) Twin beam reflective type 13ft. (4m)

MINIATURIZED CONTROL BOX

Miniaturized control box [W:1.77"(45mm) × H:4.72"(120mm) × D:1.14"(29mm)] does not use much space for installation.

PHOTOELECTRIC BEAM SENSOR

COVERAGE

●PB-10NS(E)/PB-10TNS(E)

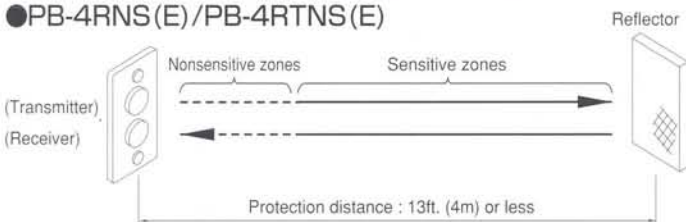


●Sensitivity adjustment

(Adjust the sensitivity adjustment control depending on the protection distance.)

| Protection distance | Sensitivity adjustment |
|---------------------|------------------------|
| Less than 10' (3m) | M |
| More than 10' (3m) | H |

●PB-4RNS(E)/PB-4RTNS(E)



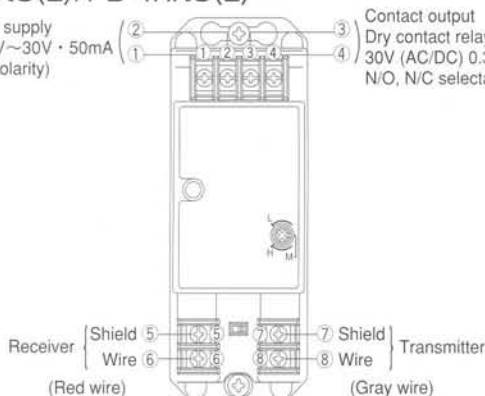
(Note) Nonsensitive zones depend upon the sensitivity volume.

| Sensitivity volume | Nonsensitivity zone |
|--------------------|---------------------|
| L | Within 5.9" (15cm) |
| M | Within 11.8" (30cm) |

TERMINAL ARRANGEMENT

●PB-10NS(E)/PB-4RNS(E)

Power supply DC10V~30V · 50mA (non-polarity) (1) (2)
 Contact output Dry contact relay 30V (AC/DC) 0.3A N/O, N/C selectable (3) (4)



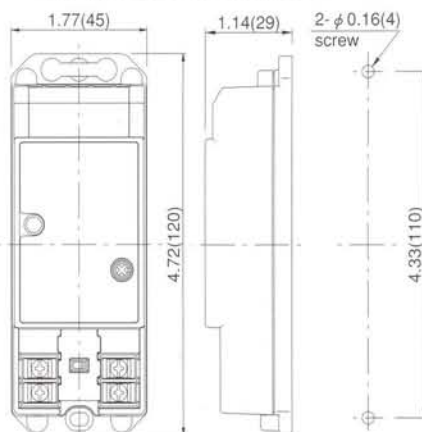
●PB-10TNS(E)/PB-4RTNS(E)

Power supply DC10V~30V · 50mA (non-polarity) (1) (2)
 Contact output Dry contact relay 30V (AC/DC) 0.3A N/O, N/C selectable (3) (4)

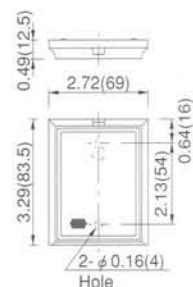


EXTERNAL DIMENSIONS unit:inch(mm)

●Control box <All models common>



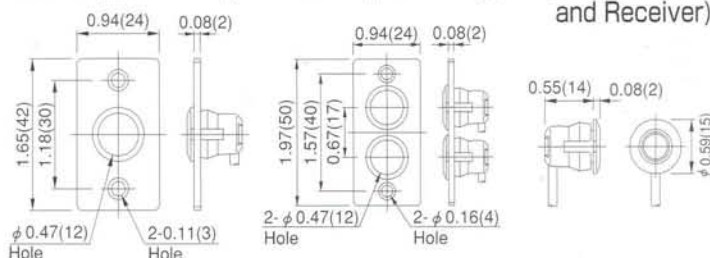
●Reflector <PB-4RNS(E)/PB-4RTNS(E)>



●Flush mounting plate

<PB-10NS(E)/PB-10TNS(E)> <PB-4RNS(E)/PB-4RTNS(E)>

●Sensor (Transmitter and Receiver)



SPECIFICATIONS

| Model | PB-10NS(E) | PB-4RNS(E) | PB-10TNS(E) | PB-4RTNS(E) |
|---------------------------|--|-------------------------------|--------------------------|-------------------------------|
| Detection system | Near infrared TR/RE type | Near infrared reflective type | Near infrared TR/RE type | Near infrared reflective type |
| Protection distance | 33ft. (10m) or less | 13ft. (4m) or less | 33ft. (10m) or less | 13ft. (4m) or less |
| Supply voltage | DC10V to DC30V (Non-polarity) | | | |
| Current consumption | 45mA or less | | 55mA or less | |
| Alarm output | Dry contact relay : 30V (AC/DC) 0.3A N/O, N/C selectable | | | |
| Response time | Detect 100msec. or more of beam interruption Contact action : Interruption time+Delay time (approx. 1 sec.) | | | |
| Operation LED | Lights Red during detection (beam is interrupted) | | | |
| Ambient temperature range | -13°F to +131°F (-25°C to +55°C) (without condensation or frozen) | | | |
| Appearance | Sensor : PC resin (clear) Control box : ABS resin (white) | | | |
| Weight | Sensor : 4.2oz (120g)×2 | Sensor : 2.1oz (60g)×2 | Sensor : 4.2oz (120g)×4 | Sensor : 2.1oz (60g)×4 |
| | Control box : 3.3oz (95g) | | | |

The 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. 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.

LEAF07-04R25-3

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