

PHOTOELECTRIC BEAM SENSOR

PB-30SU (Indoor : Protection distance : 30m)



Photoelectric Beam sensor of flush mounted type with clear looking.

Match to interior

There is only 7mm bulge from wall surface if it is installed in wall. It is comfortable and does not defile aesthetic.

Beam receiving sensitivity adjustment

When the cover is attached after optical alignment, the receiving sensitivity increase automatically.

Auto Gain Control

The unit optimizes a sensitivity within detection distance. The unit locks the gain according to the actual protection distance.

Selectable Beam power

The transmission beam power is selectable according to the protection distance.

Selectable alarm output

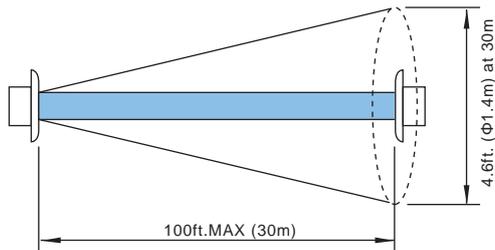
The alarm output is selectable. <N.O. / N.C.>

Tamper alarm is available

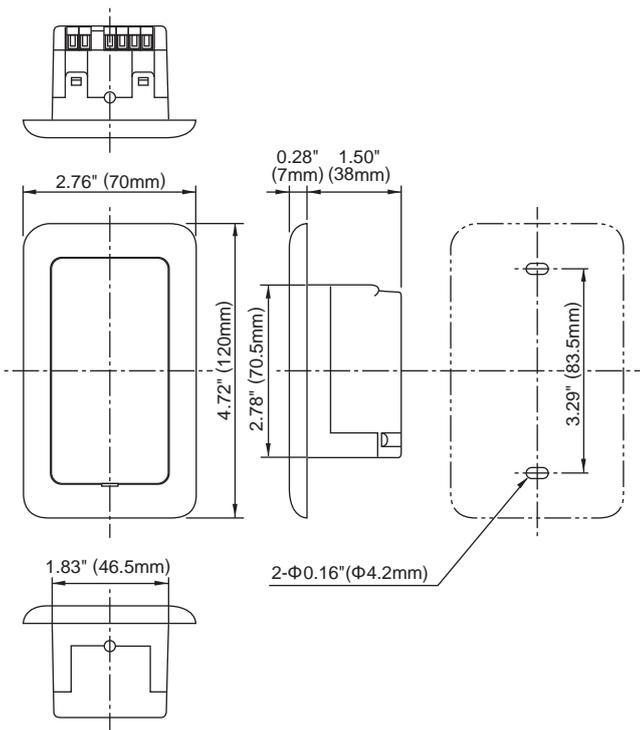
Only in receiver

PHOTOELECTRIC BEAM SENSOR

■ BEAM SPREAD RANGE



■ EXTERNAL DIMENSIONS



■ WIRING DISTANCE

VOLTAGE WIRE SIZE	DC12V	DC24V
	AWG 22 (Φ0.65mm)	1,500ft. (450m)
AWG 20 (Φ0.8mm)	2,500ft. (750m)	17,000ft. (5,200m)
AWG 18 (Φ1.0mm)	3,600ft. (1,100m)	27,000ft. (8,200m)
AWG 17 (Φ1.1mm)	4,600ft. (1,400m)	32,500ft. (9,900m)

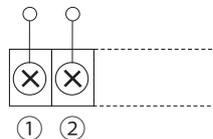
Note 1) The maximum wire length, when two or more units are connected, is the above distance divided by the number of units.

2) The signal line can be wired to a distance of 3,280ft. (1,000m) with AWG 22 (0.65mm dia.) wire.

■ TERMINAL ARRANGEMENT

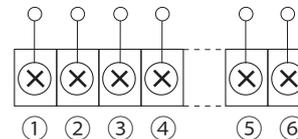
【TRANSMITTER】

Power supply
10VDC~30VDC
(non-polarity)



【RECEIVER】

Power supply 10VDC ~30VDC (non-polarity)
Alarm output 24V (AC/DC) 0.25A or less
N.C., N.O. selectable
Tamper output N.C. 30V (DC) 0.1A or less



N.C.  Alarm output selectable switch
N.O. 

■ SPECIFICATIONS

Model No.	PB-30SU
Detection system	Breaking of infrared beam
Protection distance	100ft. (30m)
Max. beam range	490ft. (150m)
Response time	100 msec. or more
Supply voltage	10 to 30VDC (non-polarity)
Power consumption	Transmitter : 7mA or less at 12VDC 12mA or less at 30VDC
	Receiver : 25mA or less at N.C. contact mode at 12VDC 31mA or less at N.O. contact mode at 30VDC
Alarm output	Dry contact relay output N.C./N.O. selectable Contact action : Interruption time (Min. 2 sec.) Contact capacity : 24V (AC/DC) 0.25A or less
Tamper output	Dry contact relay output N.C. Contact action : Activated when cover is detached Contact capacity : 30V (DC) 0.1A or less
Alarm LED	Red LED (Receiver) Light ON : when an alarm is initiated
Beam adjustment	Horizontal ±15°, Vertical ±5°
Ambient temperature range	-4°F to + 122°F (-20°C to + 50°C)
Mounting position	Indoor
Wiring	Terminals
Weight	Transmitter 3.2oz (90g), Receiver 3.4oz (95g)
Appearance	Main Body : ABS resin (white) Cover : PMMA resin (wine red)

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 or a crime 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.

TAKEX

In Japan

Takenaka Engineering Co., Ltd.
83-1, Gojo-sotokan, Higashino,
Yamashina-ku, Kyoto 607-8156, Japan
Tel : 81-75-501-6651
Fax : 81-75-593-3816
<http://www.takex-eng.co.jp/>

In the U.S.

Takex America Inc.
3350 Montgomery Drive Santa Clara,
CA 95054 U.S.A.
Tel : 408-747-0100
Fax : 408-734-1100
<http://www.takex.com>

In Australia

Takex America Inc.
4/15 Howleys Road, Notting Hill,
VIC, 3168
Tel : +61(03)9544-2477
Fax : +61(03)9543-2342

In the U.K.

Takex Europe Ltd.
Takex House, Aviary Court, Wade Road,
Basingstoke, Hampshire. RG24 8PE, U.K.
Tel : (+44) 01256-475555
Fax : (+44) 01256-466268
<http://www.takexeurope.com>