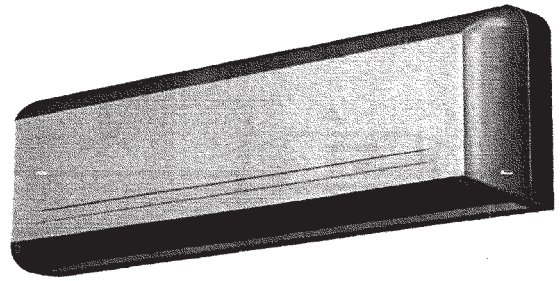




PROSAFE

OA-Presence2



MANUFACTURER'S STATEMENT

Read this Operation Manual carefully before use, to ensure proper operation of this Optex sensor. Failure to read this Operation Manual may cause improper sensor operation and may result in serious injury or death. This product is a non-contact activating switch intended for mounting on the header of an automatic door. Do not use it for any other applications; otherwise proper operation and safety cannot be guaranteed.

Cautions:

1. Follow the instructions (especially **Note**) in this Operation Manual when installing and adjusting the sensor.
2. When setting the sensor's area pattern, make sure there is no traffic around the installation site.
3. Before turning the power on, check the wiring to prevent damage or malfunction of equipment that is connected to the sensor.
4. Do not wash, disassemble, rebuild or repair the sensor by yourself; otherwise it may cause electric shock or breakdown of the sensor.
5. Only use the sensor as specified in the supplied instructions.
6. Be sure to install the sensor in accordance with the local laws and standards of your country.
7. Before leaving the jobsite, be sure that this sensor is operating properly and instruct the building owner/operator on proper operation of the door and this sensor.

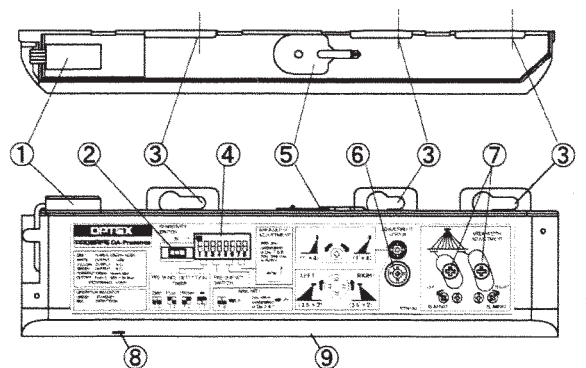
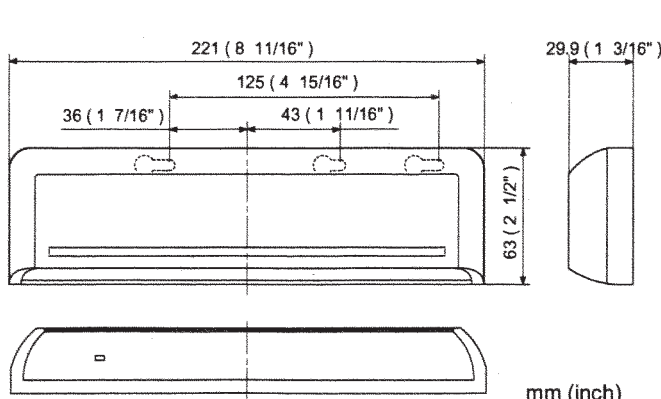
SPECIFICATIONS

Model : OA-Presence2
 Cover color type : Silver / Black
 Mounting Height : 3.0m(9'10") Max.
 Detection Area : See "Detection Area"
 Detection Method : Active Infrared Reflection Method
 Detection Angle : $\pm 4^\circ$ adjustable by 1° every one click
 Adjustments (Deep / Shallow)
 Detection Width : $\pm 7^\circ$ adjustable by 3.5° every one click
 Adjustments (Right / Left)
 Power Supply : 12 to 30V AC / DC
 Current Draw : 160mA Max. (at 12V AC)
 Operation Indicator : Green / Stand-by
 Red / Detection Active

Output Method : "Form C" relay 50V 0.3A Max.
 (Resistance Load)
 Relay Hold Time : 0.5 sec.
 Response Time : < 0.3 sec.
 Operating Temperature : -20°C to $+55^\circ\text{C}$ (-4°F to $+131^\circ\text{F}$)
 Weight : 200g (7.1oz)
 Accessories : 1 Cable 3m (9'10")
 2 Mounting Screws
 1 Operation Manual
 1 Mounting Template
 1 Area Adjustment Tool

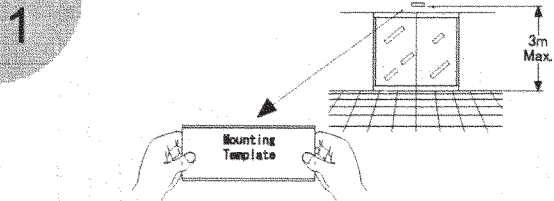
*The specifications herein are subject to change without prior notice due to improvements.

OUTER DIMENSIONS

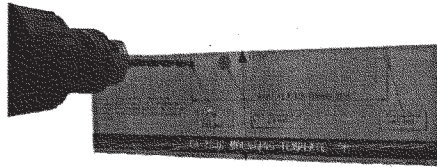


- | | |
|--------------------------|-------------------------------|
| 1 : Connector | 6 : Area Adjustment Screw |
| 2 : Sensitivity Switch | 7 : Width Adjustment Shutters |
| 3 : Mounting holes | 8 : Operation Indicator |
| 4 : Dipswitches | 9 : Detection Window |
| 5 : Area Adjustment Tool | |

INSTALLATION



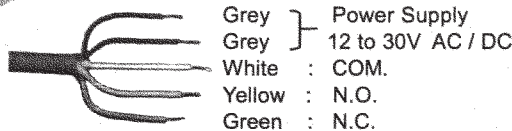
1. Affix the Mounting Template to the mounting surface.



2. Drill two mounting holes (\varnothing 3.4mm or 1/8").
3. To carry through the wire to the header, drill a wiring hole (\varnothing 8mm or 5/16").
4. After drilling the holes, remove the Mounting Template.

Note
Be sure that the mounting height is within the value of those in "SPECIFICATION".

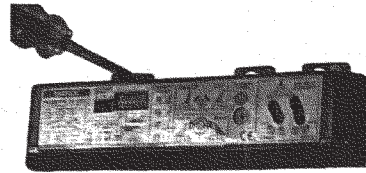
2 The cable is arranged to connect to the door controller properly as shown below.



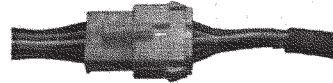
Note
Connect the cable when main power is turned off.

Note
When passing through the cable to the hole, make sure not to tear shield : otherwise it may cause electric shock or breakdown of sensor.

3 Remove the cover and attach the sensor with screws.



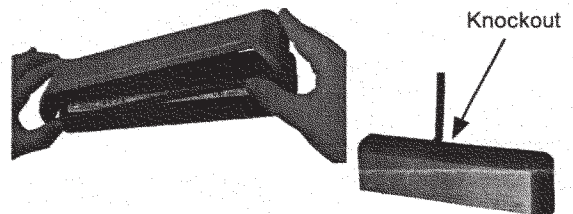
4 Plug the Connector for the sensor to that for the cable.



5 Supply power to the sensor. Adjust the detection area and set the various Switches. (See ADJUSTMENT)

Note
Make sure that you connect the cable correctly to the Control Unit of the door before turning the power on.

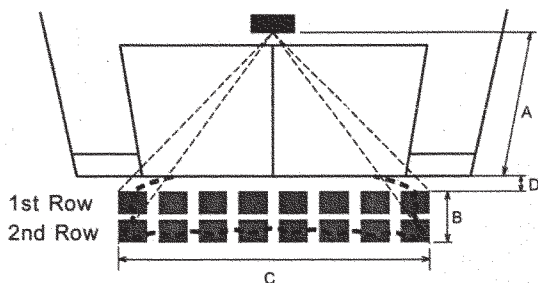
- 6 1. Put back the cover on the sensor.
2. If wiring is to be exposed, break the Knockout.



Note
Do not use the sensor without the cover. Install the sensor indoors or use the rain-cover (Optional), when using the Cable Knockout, otherwise it may cause electric shock or breakdown of sensor.

DETECTION AREA

Detection Areas are shown in the figure below.



■ : Emitting Spot
□ : Detection Area

Provided Detection Row type	1st	2nd
Presence Detection	○	○
Motion Detection	○	○

After adjustment, turn the power off and on again, be sure to walk-test all of detection areas.

*The values of the chart below is of the Emitting Spots, but not of the Detection Area.

The actual Detection Area may become smaller depending on the ambient light and the colour / material of object and the floor as well as the entry speed of object.

	[m]				
A	2.00	2.20	2.50	2.70	3.00
B	0.28	0.31	0.35	0.38	0.41
C	2.10	2.30	2.60	2.80	3.10
D	0.16	0.18	0.20	0.22	0.25

	[feet , inch]				
A	6' 6 3/4"	7' 2 5/8"	8' 2 7/16"	8' 10 5/16"	9' 10 1/8"
B	11"	1' 3/16"	1' 1 3/4"	1' 2 15/16"	1' 4 9/16"
C	6' 10 11/16"	7' 6 9/16"	8' 6 3/8"	9' 2 1/4"	10' 2 1/16"
D	6 5/16"	7 1/16"	7 7/8"	8 11/16"	9 13/16"

ADJUSTMENT

1 Adjusting the Pattern Width

Setting the Width adjustment shutters

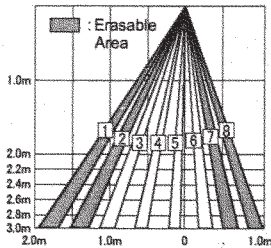
Opens All Areas	Eliminate 1 2	Eliminate 7 8	Eliminate 1 2 7 8



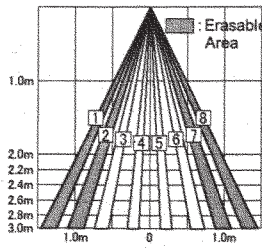
Adjusting the Width Angle

Left or Right : between 0° to 7° (3.5° per click)

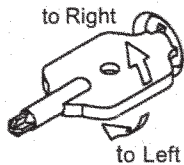
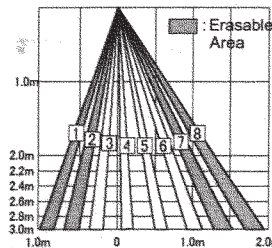
Pattern when changed 7° to Left



Pattern when Standard



Pattern when changed 7° to Right



Note Setting the pattern for exact door opening may give a slow response to side approaching traffic.

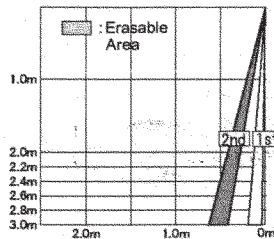
2 Adjusting the Pattern Depth

Setting the Row with the Dipswitch 7 & 8.

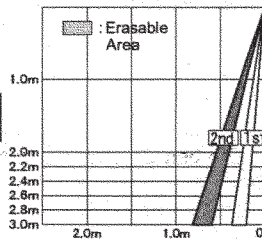


Adjusting the Depth Angle between -4° to 4° (1° per click).

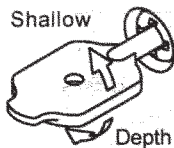
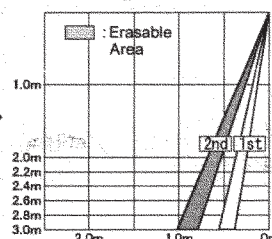
Pattern when changed -4° to Shallow (inside).



Pattern when Standard

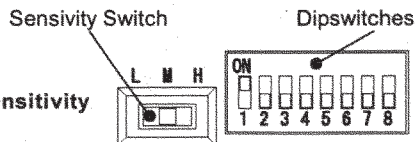


Pattern when changed 4° to Deep (outside).



Note Set the pattern for actual traffic. It may cause slow activation for the traffic from the front, when the Row is eliminated.

3 Setting of Sensitivity Switch and Dipswitches

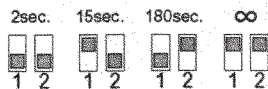


Setting the Sensitivity

Normally set to "M".

"H" increases the sensitivity and "L" lowers the sensitivity.

Setting the Presence timer

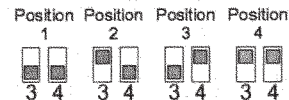


All areas provide the presence detection.

- (1) Select the presence detection time.
- (2) Turn the power off and on again. Otherwise it may leave door open for the duration of the presence time set.
- (3) After making sure that the door closes, wait for 10 seconds before entering the detection area to set the Presence timer.

Setting the Frequency Function (interference Prevention)

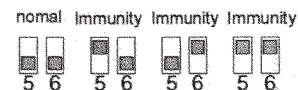
Four different frequencies can be set by adjusting the Dipswitch 3 and 4.



Note When two or more sensors are installed close to each other, it is possible that they interfere. When that happens, change the Frequency.

Setting the Immunity

Set the Dipswitch 5 and 6 to Immunity, if the sensor is used in a region with snow or a lot of insects.



CHECKING

Check the operation according to the chart below.

Entry motion (image)					
Sensor status	Power OFF	Stand-by	Motion or Presence Detection Active		Stand-by
Operation indicator	OFF	Green	Orange	Red	Green
Output					

Note The door may open once after the power is switched on.

Inform the following items to the building owner/operator

1. When turning the power on, always walk-test the sensor pattern to ensure proper operation.
2. Always keep the detection window clean. If dirty, wipe the window with a damp cloth (Do not use any cleaner or solvent).
3. Do not wash the sensor with water.
4. Do not disassemble, rebuild or repair the sensor yourself; otherwise electric shock may occur.
5. Contact your installer or the sales engineer if you want to change the settings.
6. Do not place an object that moves or emits light in the detection area.(ex. Plant, illumination etc..)
7. Do not paint the Detection Window.

TROUBLESHOOTING

Trouble	Possible Cause	Solution
Does not operate	Power supply is not adequate.	Adjust to stated voltage.
	Connection Failure.	Check the wiring and the connector.
Does not operate consistently	Dirty detection window.	Wipe the detection window with a damp cloth(Do not use any cleaner or solvent).
	Sensitivity is Low.	Set the Sensitivity Switch " H " .
Operates by itself	There is an object that moves or emits light in the detection area.(ex. plant, illumination etc...)	Remove the object.
	Vibration of the header.	Secure the header. Or set the Sensitivity Switch " L " .
	Sensitivity is high.	Set the Sensitivity Switch " L " .
	Waterdrops on detection window.	Install in a place keeping the waterdrops off. OR use a rain-cover (Optional).
	Detection area has interfered the area of another sensor.	Set the different frequency position each other.
	The Emitting spots are overlapping with the door / header.	Adjust the detection area to deep (outside).
	There is an reflected object in the detection area. Solar light reflects.	Remove the object.
	There was a puddle left by rain or snow. The floor has gotten wet.	This sensor is equipped with the anti-malfunction. However, pay attention when installing as malfunction may occur under the left conditions.
The exhaust of the car and the fog penetrate into the detection area.		
Keep operating	Presence timer is Infinity. There was an abrupt condition change in the detection area.	Turn the power off and on again.

Contact your installer or the sales engineer if:

- you need to change the settings or replace the sensor.
- the trouble still persists after checking and remedying as described above.



OPTEX CO.,LTD. (ISO 9001 Certified by LRQA)
5-8-12 Ogoto Otsu 520-0101, Japan
TEL.: +81 (0)77-579-8700 FAX: +81 (0)77-579-7030
WEBSITE: www.optex.co.jp

Optex Technologies, Inc.
3882 Del Amo Blvd., Suite 604
Torrance, California 90503
Toll Free: (800) 877-6656 • Fax: (310) 214-8655
Web: www.ot-inc.com

Secumatic b.v.

Tiber 2, 2491, DH The Hague, P.O. Box 24009 2490, AA The Hague
The Netherlands
TEL.: +31 (0)70 419 41 00 FAX: +31 (0)70 317 73 21
E-MAIL: info@secumatic.nl WEBSITE: www.secumatic.nl