



MANUFACTURER'S STATEMENT

5912222 AUG 2008

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.

- 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 senor 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 Cover color type Mounting Height

Detection Area Detection Method

Depth Angle Adjustments **Detection Width** Power supply

Adjustments **Current Draw**

OA-Presence : Silver / Black /White 3.0m (9'10") Max. See "Detection Area" Active Infrared Reflection Method

±4°adjustable by 1°every one click (Deep / Shallow) ±7° adjustable by 3.5° every one click (Right / Left)

12 to 30V AC / DC 160mA Max. (at 12V AC) Operation indicator : Green / Stand-by Red / 1st Row Detection Active Output Relay Hold Time

"Form C" relay 50V 0.3A Max. (Resistance Load) : 0.5 sec.

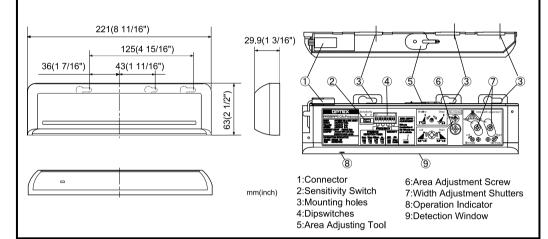
Response Time <0.3 sec Operating Temperature Weight

-20°C to +55°C (-4°F to +131°F) 200g (7.1oz) : 1 Cable 3m (9'10") Accessories 2 Mounting Screws

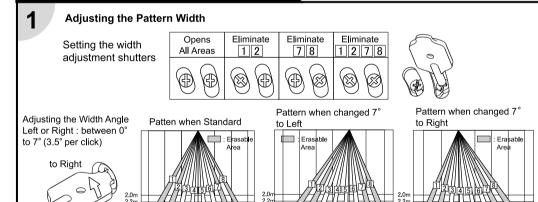
1 Operation Manual 1 Mounting Template 1 Area Adjustment Tool

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

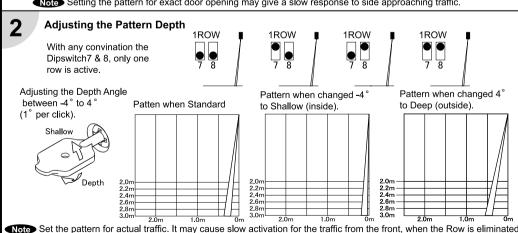
OUTER DIMENSIONS



ADJUSTMENT



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



Setting of Sensitivity Switch and Dipswitches Dipswitches

Sensitivity Switch Setting the Sensitivity Normally set to "M"

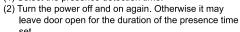


2sec. 15sec 180sec. ∞

"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



(3) After making sure that the door closes, wait for 10 seconds before entering the detection area to set the Presence timer.

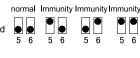
Setting the Frequency Function

Position Position Position (Interference Prevention) Four different frequencies can be set by adjusting the Dipswitch 3 3 4 3 4 3 4 and 4

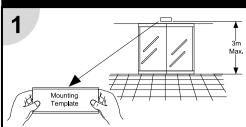
Note When two or more sensors are installed close to each other, it is possible that they interfere. When that happen change the Frequency.

Setting the Immunity

Set the Dipswitch5 and 6 to immunity, if the sensor is used in a region with snow or a lot of insects.



INSTALLATION



1. Affix the Mounting Template to the mounting surface.



2.Drill two mounting holes. (ϕ 3.4mm or 1/8") 3.To carry through the wire to the header, drill a wiring

hole (ϕ 8mm or 5/16") 4. After drilling the holes, remove the Mounting Template.

Be sure that the mounting height is within the value of

The cable is arranged to connect to the door

controller properly as shown below. Grey Grey

Power Supply 12 to 30V AC/ DC COM. N.O. Yellow

N.C.

Note

Connect the cable when main power is turned off.

White

Green

When passing through the cable to the hole, make sure not to tear shield; otherwise it may cause electric shock or

Remove the cover and attach the sensor with screws



Plug the connector for the sensor to that for the cable



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

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

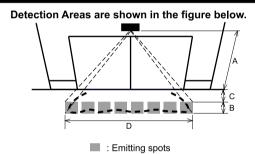
1. Put back the cover on the sensor. 2. If wiring is to be exposed, break the Knockout.



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

DETECTION AREA

Motion Detection



: Detection area Provided Detection Row type Presence Detection 0 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 ambiance light and the colour / material of object and the floor as well as the entry speed of object

Α	2.00	2.20	2.50	2.70	3.00
A B C	0.14	0.16	0.18	0.19	0.21
С	0.16	0.18	0.20	0.22	0.25
Ь	2.10	2.30	2.60	2.80	3.10

					[feet,inch]
Α	6' 6 3/4"	7' 2 5/8"	8' 2 7/16"	8' 10 5/16"	9' 10 1/8"
В	11"	1' 3/16"	1' 1 3/4"	1' 2 15/16"	1' 4 9/16"
С	6 5/16"	7 1/16"	7 7/8"	8 11/16"	9 13/16"
	6' 10 11/16"	7' 6 9/16"	8' 6 3/8"	9' 2 1/4"	10' 2 1/16"

CHECKING

Check the operation according to the chart below

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Entry motion	Power OFF	Outside the Detection area	Entry into the Detection area	Outside the Detection area
(image)	_	_ * /		
Sensor status	Power OFF	Stand-by	Motion or Presence Detection Active	Stand-by
Operation Indicator	OFF	Green	Red	Green
Output	Yellow Green White	— Yellow — Green White	Yellow Green White	Yellow Green White
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.) Do not wash the sensor with water
- 4.Do not disassemble, rebuild or repair the sensor yourself; otherwise electric shock may occur.
- 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 pain 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	Dirty detection window.	Wipe the detection window with a damp cloth. (Do not use any cleaner or solvent.)	
consistently	Sensitivity is Low.	Set the Sensitivity Switch "H".	
	There is an object that moves or emits light in the detection area. (Ex, plant, illumination, etc.)	Remove the object.	
Operates by	Vibration of the header.	Secure the header. Or set the Sensitivity Switch "L".	
litself	Sensitivity is high.	Set the Sensitivity Switch "L"	
(Ghosting)	Waterdrops on the 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.		
Door stays open or closed	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.

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