

5919041 2011 OCT

MANUFACTURER'S STATEMENT

Read this operation manual carefully before use to ensure proper operation of this product. Failure to read this operation manual may cause improper operation and may result in serious injury or death of a person. The meanings of the symbols are as follows.

	WARNING	Disregard of warning may cause the improper operation causing death or serious injury of a person.
	CAUTION	Disregard of caution may cause the improper operation causing injury of a person or damage to objects.
	NOTE	Special attention is required to the section of this symbol.

NOTE

- This product is a non-contact switch intended for header mount for use on industrial door. Do not use for any other applications.
- When setting the sensor's detection area, make sure that there is no traffic around the installation site.
- Before turning the power ON, check the wiring to prevent damage or malfunction of equipment connected to the product.
- Only use the product as specified in the operation manual provided.
- Be sure to install and adjust the sensor in accordance with the local laws and standards of the country in which the product is installed.
- Before leaving the installation site make sure that the product is operating properly and instruct the building owner/operator on proper operation of the door and the product.
- The product settings can only be changed by an installer or service engineer. When changed, the changed settings and the date shall be registered in the maintenance logbook accompanying the door.

	WARNING	Do not wash, disassemble, rebuild or repair the sensor, otherwise it may cause electric shock or breakdown of the equipment.
Danger of electric shock.		

NOTE

- The following conditions are not suitable for sensor installation.
- Fog or exhaust emission around the door.
 - Wet floor.
 - Vibrating header or mounting surface.
 - Moving objects or objects that emit light near the detection area.
 - Highly reflecting floor or highly reflecting objects around the door.



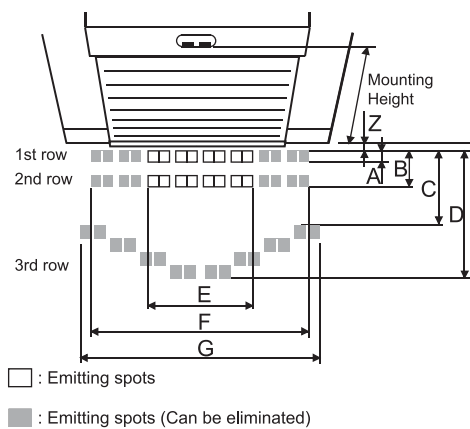
SPECIFICATIONS

Model	: OA-6500S(E)	Activation output	: When 3rd rows detect.
Color	: Black		: N.C. / N.O. selectable
Mounting Height	: 2.5m(8'2") to 6.5m(21'4")		: 50V0.3A MAX.(Resistance load)
Detection area	: See DETECTION AREA	Safety output	: When 1st or 2nd row detects.
Detection method	: Active infrared reflection method		: N.C. / N.O. selectable
	(All presence detection)		: 50V0.3A MAX.(Resistance load)
Depth adjustment	: 1st and 2nd rows: -15° to +5°	Output hold time	: Approx. 0.5 sec.
	3rd row: +30° to +50°	Response time	: <0.3 sec.
Power supply	: 12 to 24V AC ±10% (50/60Hz)	Operation temperature	: -20°C to +55°C(-4°F to 131°F)
	12 to 30V DC ±10%	Operating humidity	: <80%
Power consumption	: <2.5W (< 3.5VA at AC)	IP rate	: IP44
Operation indicator	: Green / Stand-by	Weight	: 600g(21.2 oz)
	Red / 1st row detection	Accessories	: 1 Cable 4m(13'2")
	Orange / 2nd and 3rd rows detection		2 Mounting screws
			1 Mounting template
			1 Operation manual
			1 High mount window
			1 Protection sticker

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

DETECTION AREA

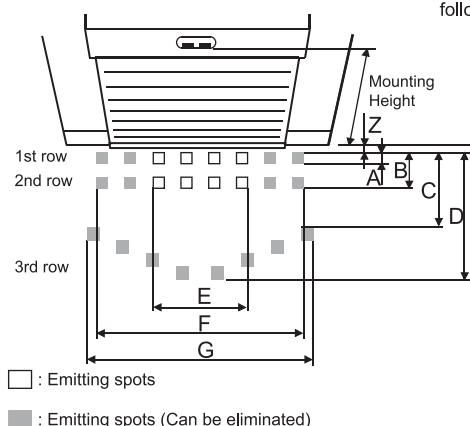
[Standard window]



Window	Standard window					High mount window				
	2,500 (8'2")	3,500 (11'6")	4,500 (14'9")	5,500 (18'1")	6,500 (21'4")	2,500 (8'2")	3,500 (11'6")	4,500 (14'9")	5,500 (18'1")	6,500 (21'4")
A	150 (6")	210 (8")	280 (11")	340 (1'1")	400 (1'4")	150 (6")	210 (8")	280 (11")	340 (1'1")	400 (1'4")
B	560 (1'10")	790 (2'7")	1010 (3'4")	1240 (4'1")	1470 (4'10")	560 (1'10")	790 (2'7")	1010 (3'4")	1240 (4'1")	1470 (4'10")
C	680 (2'3")	960 (3'2")	1240 (4'1")	1510 (4'11")	1790 (5'11")	680 (2'3")	960 (3'2")	1240 (4'1")	1510 (4'11")	1790 (5'11")
D	1340 (4'5")	1870 (6'2")	2410 (7'11")	2940 (9'8")	3480 (11'5")	1340 (4'5")	1870 (6'2")	2410 (7'11")	2940 (9'8")	3480 (11'5")
E	1530 (5'1")	2150 (7'1")	2760 (9'1")	2790 (9'2")	3300 (10'10")	1530 (5'1")	2150 (7'1")	2760 (9'1")	2790 (9'2")	3300 (10'10")
F	3640 (11'11")	5100 (16'9")	6560 (21'7")	7230 (23'9")	8550 (28'1")	3640 (11'11")	5100 (16'9")	6560 (21'7")	7230 (23'9")	8550 (28'1")
G	3840 (12'7")	5380 (17'8")	6910 (22'8")	7620 (25")	9010 (29'7")	3840 (12'7")	5380 (17'8")	6910 (22'8")	7620 (25")	9010 (29'7")
Z	150 (6")	220 (9")	280 (11")	340 (1'1")	410 (1'4")	150 (6")	220 (9")	280 (11")	340 (1'1")	410 (1'4")

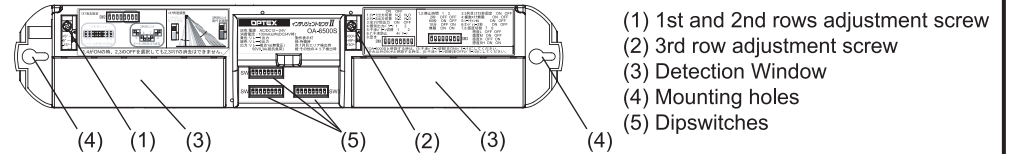
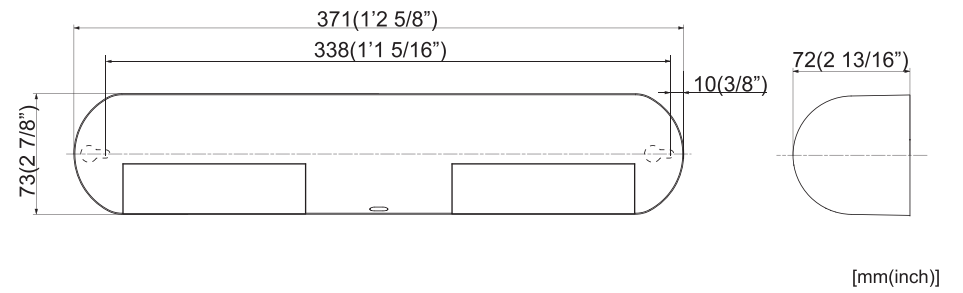
Values of the chart are based on the 1st and 2nd rows : +5° following depth angle adjustment settings; 3rd row : +30°

[High mount window]



NOTE The actual detection area may become smaller depending on the ambient light, the color / material of the object or the floor as well as the entry speed of the object. The sensor may not be activated when the entering speed of the object or a person is slower than 50mm / sec. or faster than 1500mm / sec.

OUTER DIMENSIONS AND PART NAMES



INSTALLATION

1 Drill two mounting holes $\phi 3.4\text{mm}$ ($\phi 1/8"$) on the header. To pass the cable through the header, drill a wiring hole of $\phi 8\text{mm}$ ($\phi 5/16"$).

[mm(inch)]

2 Wire the cable to the door controller as shown below.

Grey } Power supply 12 to 24V AC (50/60Hz)
Grey } 12 to 30V DC
Yellow } Activation output
Yellow }
Green } Safety output
Green }

See **ADJUSTMENTS 3-1** for output settings.

WARNING Before starting the procedure, make sure that the power is turned OFF. When passing the cable through the hole, do not tear the shield. otherwise it may cause electric shock or breakdown of the sensor.

Danger of electric shock.

3 1.Plug the connector of the sensor.
2.Supply power to the sensor. Adjust the detection area and set the dipswitches. (See **ADJUSTMENTS**)

NOTE Make sure to connect the cable correctly to the door controller before turning the power on. When turning the power on or after adjusting the settings, do not enter the detection area for more than 10 seconds in order to enable the presence detection. When changing the settings of dipswitch, see **ADJUSTMENTS 3 Dipswitch settings**.

4 1.Put the protection sticker as shown below.

2.Place the housing cover. If wiring is to be exposed, break the knockout.

WARNING Do not use the sensor without the cover. When using the cable knockout, install the sensor indoors or use the rain-cover (Separately available) otherwise electric shock or breakdown of the sensor may occur.

Danger of electric shock.

ADJUSTMENTS

1 **Detection window selection**

According to the mounting height, select proper detection window.
2.5m(8'2") to 5.0m(16'5"):Standard window(default)
5.0m(16'5") to 6.5m(21'4"):High mount window

When changing window follow procedure below.

- Remove the screws
- Take the windows off.
- Attach the windows.
- Fix the windows with the screws.

NOTE Please carry out operation check after changing window.