OA-AXIS I / II



ENGLISH

DETECTION AREA

MANUFACTURER'S STATEMENT

Read this operation manual carefully before use to ensure proper operation of the sensor. Failure to read this operation manual may cause improper sensor operation and may result in serious injury or death of person. The meanings of the symbols are as follows. Please study the following first and then read the contents of this operation manual.

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

NOTE

 This sensor is a non-contact switch intended for header mount / wall mount of an automatic door. Do not use for any other applications. This sensor cannot be used for industrial doors or shutters, when used, proper operation and safety cannot be guaranteed.

- 2. When setting the sensor's detection area, make sure there is no traffic around the installation site.
- Before turning the power on, check the wiring to prevent damage or malfunction of equipments that are connected to the sensor.
- 4. Only use the sensor as specified in the operation manual provided.
- 5. Be sure to install the sensor in accordance with the local laws and standards of the country in which the sensor is installed.
- Before leaving the job site make sure that the sensor is operating properly and instruct the building owner/operator on proper operation of the door and the sensor.
- 7.The sensor setting can only be changed by an installer or service engineer. When changed, register the changed setting and dates in the maintenance logbook accompanying the door.

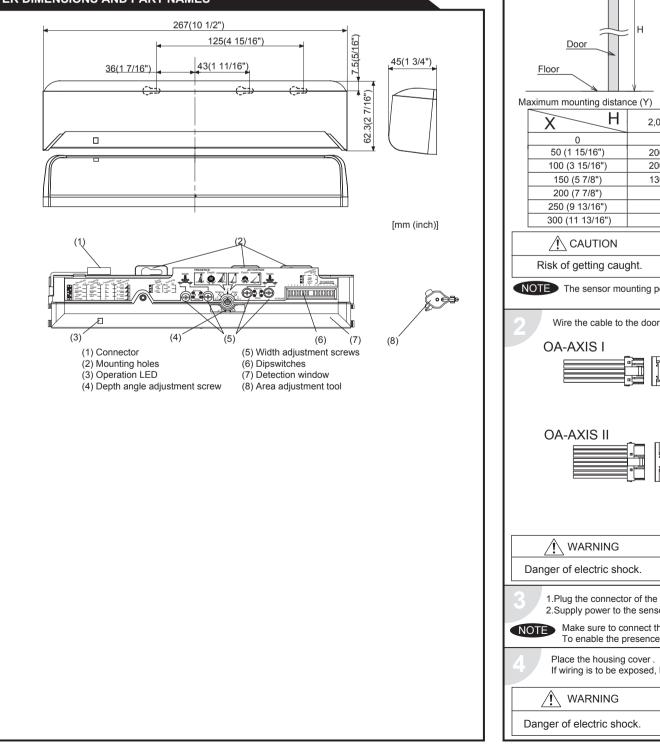
	Do not wash, disassemble, rebuild or repair the sensor, otherwise
Danger of electric shock.	it may cause electric shock or breakdown of equipments.

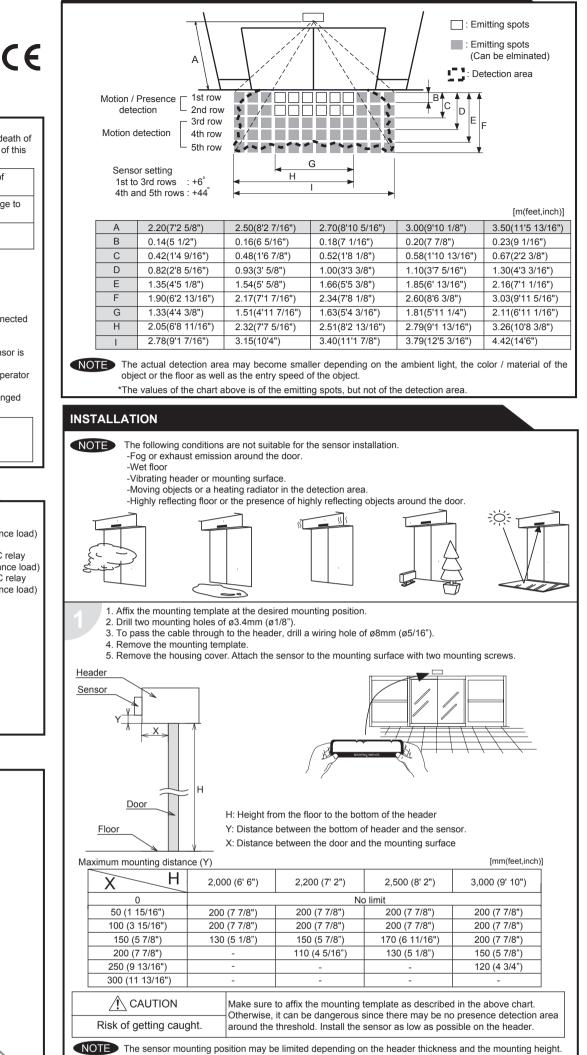
SPECIFICATIONS

-			
Model Cover color	: OA-AXIS I / OA-AXIS II : Silver / Black	Output	: OA-AXIS I / Form C relay
	: 2.0 (6'7") to 3.5m (11'5")		
Mounting height			50V 0.3A Max.(Resistance load)
Detection area	: See DETECTION AREA		OA-AXIS II /
Detection method	: Active Infrared Reflection		1st to 3rd rows / Form C relay
Depth angle adjustmer	nt : 1st to 3rd rows / -6° to +6°		50V 0.3A Max. (Resistance load)
	4th and 5th rows / +26° to +44°		3rd to 5th rows / Form C relay
Power supply	: 12 to 24VAC(±10%) 12 to 30VDC(±10%)		50V 0.3A Max.(Resistance load)
		Output hold time	: Approx. 0.5 sec.
Power consumption	: OA-AXIS I < 3VA	Response time	: <0.3 sec.
	OA-AXIS II < 4VA	Operating temperature	: -20 to +55℃(-4 to 131°F)
Operation LED	: Green / Stand-by	IP rate	: IP44
	Blinking Red / 1st row detection	Weight	: 320g (11.2oz)
	Red / 2nd row detection	Accessories	: 1 Cable 3m (9'10")
	Orange / 3rd to 5th rows detection		1 Operation manual
			2 Mounting screws
			1 Mounting template
			1 Area adjustment tool

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

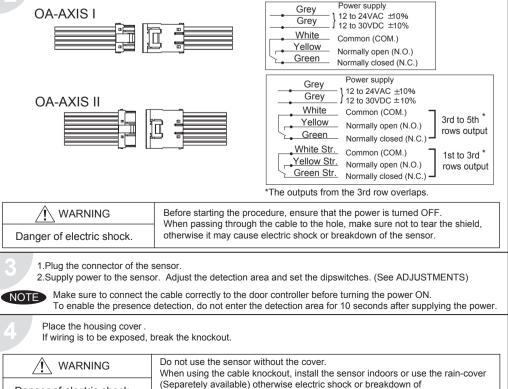
OUTER DIMENSIONS AND PART NAMES

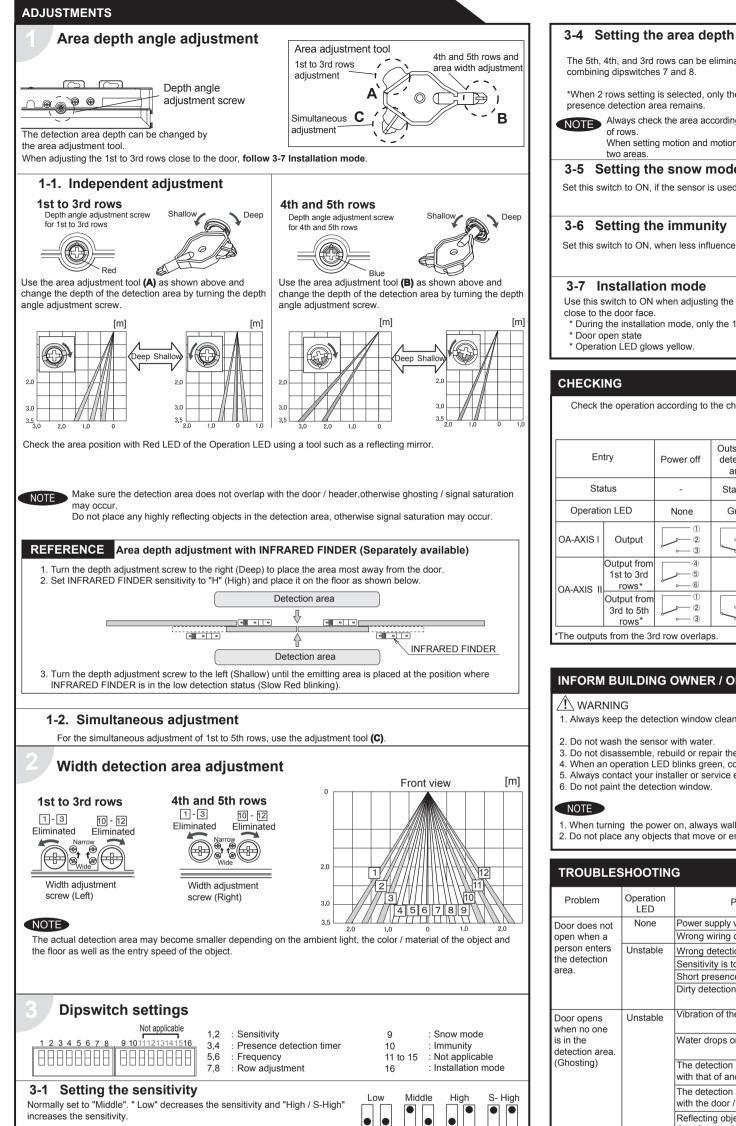




Wire the cable to the door controller properly as shown in the drawing below.

the sensor may occur





	Setting the area depth	_	_	_	
comb *Whe	oth, 4th, and 3rd rows can be eliminated by ining dipswitches 7 and 8. In 2 rows setting is selected, only the ince detection area remains.	5 rows 7 8	4 rows 7 8	3 rows 7 8	2 rows 7 8
NOT	 Always check the area according to the of rows. When setting motion and motion / preset two areas. 				
3-5	Setting the snow mode		OF	F ON	
Set thi	s switch to ON, if the sensor is used in a reg	ion with snow.	9		
3-6	Setting the immunity		0F		
	s switch to ON, when less influence by the h	neader vibration is rec			
			10	10	
close * Dui	Installation mode his switch to ON when adjusting the presence to the door face. ing the installation mode, only the 1st row re or open state		OF		

CHECKING

Check the operation according to the chart below. 1 White : COM. (4) White Str. : COM. 2 Yellow : N.O. 5 Yellow Str. : N.O. ③ Green : N.C. 6 Green Str. : N.C. Outside of Entry into Entry into Entry into Entry into Entry Power off detection 4th or 5th row 2nd row 3rd row 1st row area Motion/Presence Motion Presence Status Stand-by etection active detection active detection Operation LED Blinking Red Green Orange None Red OA-AXIS I Output 2 0-2 2 - 3 3 - 3 **Dutput from** 4 4 4 1st to 3rd - (5) 5 5 OA-AXIS rows* 1 Output from 1 2 (2) 2 o— - ② 3rd to 5th 3 3 3 rows *The outputs from the 3rd row overlaps

(Do not use any cleaner or solvent.)

INFORM BUILDING OWNER / OPERATOR OF THE FOLLOWING ITEMES

1. Always keep the detection window clean. If dirty, wipe the window lightly with a damp cloth.

- 2. Do not wash the sensor with water.
- 3. Do not disassemble, rebuild or repair the sensor yourself, otherwise electric shock may occur.
- 4. When an operation LED blinks green, contact your installer or service engineer.
- 5. Always contact your installer or service engineer when changing the settings.
- Do not paint the detection window.

NOTE

1. When turning the power on, always walk-test the detection area to ensure proper operation.

2. Do not place any objects that move or emit light in the detection area. (e.g. Plant, illumination, etc.)

TROUBLESHOOTING

Problem	Operation LED	Possible cause	Possible countermeasures
Door does not	None	Power supply voltage.	Set to the stated voltage.
open when a		Wrong wiring or connection failure.	Check the wires and connector.
person enters	Unstable	Wrong detection area positioning.	Check ADJUSTMENTS 1 & 2.
the detection		Sensitivity is too low.	Set the sensitivity higher.
area.		Short presence detection timer.	Set the presence detection timer longer.
		Dirty detection window.	Wipe the detection window with a damp cloth. (Do not use any cleaner or solvent.)
Door opens when no one	Unstable	Vibration of the header.	Set the sensitivity lower or the immunity to ON.
is in the detection area.		Water drops on the detection window.	Use the rain-cover (Separately available). Or install in a place keeping the waterdrops off.
(Ghosting)		The detection area overlaps with that of another sensor.	Check ADJUSTMENTS 3-3.
		The detection area overlaps with the door / header.	Adjust the detection area to "Deep" (Outside).
		Reflecting objects in the detection area. Or reflecting light on the floor.	Remove the objects.
		Sensitivity is too high.	Set the sensitivity lower.
		It snows and pours.	Set the snow mode to ON.
		Objects that move or emit light in the detection area. (Ex.Plant, illumination,etc.)	Remove the objects.
		Wet floor.	Check the installation condition referring to
		The exhaust emission or fog pen- etrate into the detection area.	INSTALLATION on the reverse side.
Door remains open	Red or Orange	Sudden change in the detection area.	Check ADJUSTMENTS 3-1 & 3-2 . If the problem still persists, hard-reset the sensor.(Turn the power OFF and ON again.)
	Proper	Wrong wiring or connection failure.	Check the wires and connector.
	Twice Green blinking	The relay is reaching the end of its life cycle.	Contact your installer or the sales engineer.
	Slow Green blinking	Signal saturation	Remove highly reflecting objects from the detection area. Or lower the sensitivity. Or change the area angle.
		The detection area overlaps with the door / header.	Adjust the detection area to "Deep" (Outside).
Door remains closed	Proper	Wrong wiring or connection failure.	Check the wires and connector.

The 1st and 2nd rows have the presence detection function. The presence detection timer can be selected from 4 settings.



180 sec

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60 sec.

15 sec.



NOTE To enable the presence detection, do not enter the detection area for 10 seconds after setting the timer.

3-3 Setting the frequency

When using more than two sensors close to each other, set the different frequency for each sensor by combining dipswitch 5 and 6.

Setting 1	Setting 2	Setting 3	Setting 4	
5 6	5 6	5 6	5 6	