



PROSAFE OA-203C CE

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

- NOTE**
- This product is a non-contact switch intended for header mount or wall mount for use on an automatic sliding 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	

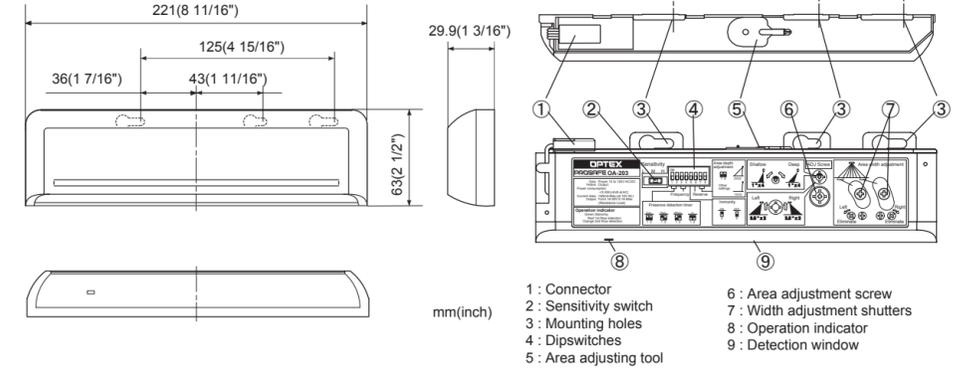
- NOTE** The following conditions are not suitable for sensor installation.
- Fog or exhaust emission around the door
 - Wet floor
 - Vibrating header or mounting surface
 - Moving objects, steel plate, emergency lights or illumination in the detection area or in vicinity
 - Highly reflecting floor or highly reflecting objects around the door

SPECIFICATIONS

Model	: OA-203C	Output	: "Form C" relay 50V 0.3A Max. (Resistance load)
Cover color type	: Silver / Black / White	Relay hold time	: 0.5sec.
Mounting height	: 3.0m (9'10") Max.	Response time	: < 0.3sec.
Detection area	: See "DETECTION AREA"	Operating temperature	: -20°C to +55°C (-4°F to +131°F)
Detection method	: Active infrared reflection method	Weight	: 200g (7.1oz)
Detection angle adjustments	: ±4° adjustable by 1° every one click (Deep / Shallow)	Accessories	: 1 Cable 3m (9'10") 2 Mounting screws 1 Operation manual 1 Mounting template 1 Area adjustment tool
Detection width adjustments	: ±7° adjustable by 3.5° every one click (Right / Left)		
Power supply	: 12 to 30VAC / DC		
Current draw	: 160mA Max. (At 12VAC)		
Operation indicator	: Green / Stand-by Red / 1st row detection active Orange / Other row detection active		

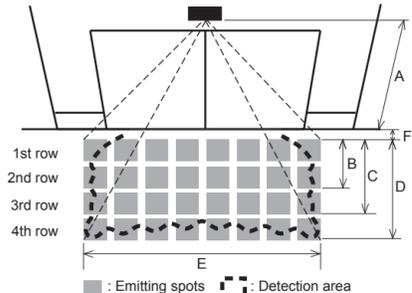
NOTE The specifications herein are subject to change without prior notice due to improvements.

OUTER DIMENSIONS AND PART NAMES



DETECTION AREA

Detection Areas are shown in the figure below.



Provided Detection Row type	1st	2nd	3rd	4th
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	0.68	0.75	0.85	0.92	1.02
D	1.18	1.30	1.48	1.59	1.77
E	2.10	2.30	2.60	2.80	3.10
F	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	2' 2 3/4"	2' 5 1/2"	2' 9 9/16"	3' 4 3/16"	3' 4 3/16"
D	3' 10 7/16"	4' 3 3/16"	4' 10 1/4"	5' 2 5/8"	5' 9 11/16"
E	6' 10 11/16"	7' 6 9/16"	8' 6 3/8"	9' 2 1/4"	10' 2 1/16"
F	6 5/16"	7 1/16"	7 7/8"	8 11/16"	9 13/16"

INSTALLATION

- Affix the Mounting Template to the mounting surface.
- Drill two mounting holes. (ø3.4mm or 1/8")
To carry through the wire to the header, drill a wiring hole. (ø8mm or 5/16")
After drilling the holes, remove the Mounting Template.
- 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 "ADJUSTMENTS".)

NOTE Be sure that the mounting height is within the value of those in "SPECIFICATIONS".

	WARNING Connect the cable when main power is turned OFF. When passing through the cable to the hole, make sure not to tear shield; otherwise it may cause electric shock or breakdown of sensor.
Danger of electric shock	

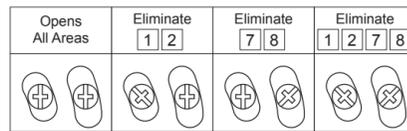
- Put back the cover on the sensor.
If wiring is to be exposed, break the Knockout.

	WARNING 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 breakdown of sensor.
Danger of electric shock	

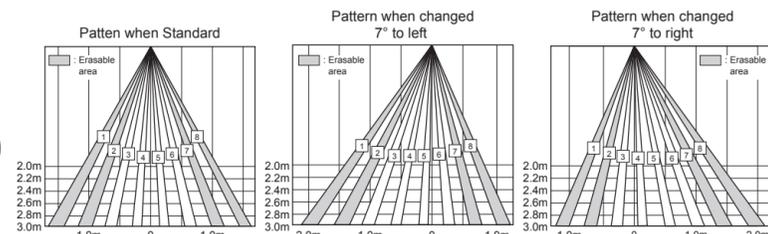
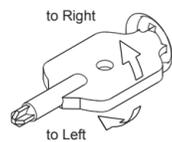
ADJUSTMENTS

1 Adjusting the Pattern Width

Setting the width adjustment shutters



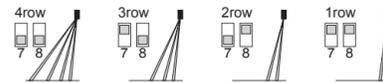
Adjusting the width angle left or right : between 0° to 7° (3.5° per click)



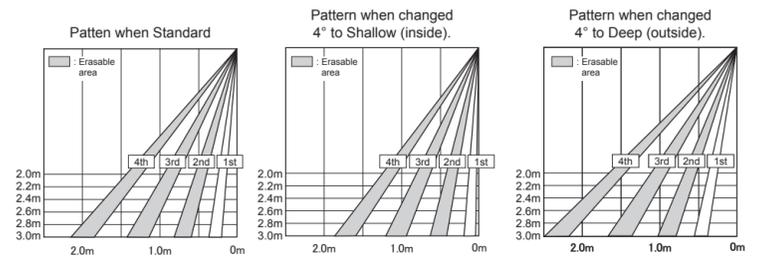
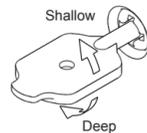
NOTE Setting the pattern for exact door opening may give a slow response to side approaching traffic.

2 Adjusting the pattern depth

Setting the row with the dipswitch 7 & 8.



Adjusting the depth angle between -4° to 4° (1° per click).

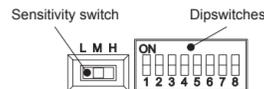


NOTE Set the pattern for actual traffic. It may cause slow activation for the traffic from the front, when the row is eliminated.

3 Setting of sensitivity switch and dipswitches

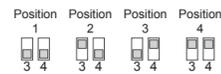
Setting the sensitivity

Normally set to "M". "H" increases the sensitivity and "L" lowers the sensitivity.



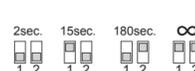
Setting the frequency function (Interference prevention)

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



Setting the presence timer

1st row and 2nd row from door provide the presence detection.



NOTE When using more than one sensor close to each other, it is possible that they interfere. When that happens, change the frequency.

- Select the presence detection time.
- Turn the power OFF and ON again. Otherwise it may leave door open for the duration of the presence time set.
- After making sure that the door closes, wait for 10 seconds before entering the detection area to set the presence timer.

Setting the snow mode

Set the dipswitch 5 and 6 to snow mode, 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)	Power OFF	Outside the detection area	Entry into 3rd or 4th row	Entry into 2nd row	Entry into 1st row	Outside the detection area
Sensor status	Power OFF	Stand-by	Motion detection active	Motion or presence detection active	Motion or presence detection active	Stand-by
Operation indicator	OFF	Green	Orange	Orange	Red	Green
Output	Yellow Green White	Yellow Green White	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 BUILDING OWNER / OPERATOR OF THE FOLLOWING ITEMS

WARNING

- Always keep the detection window clean. If dirty, wipe the window with a damp cloth. Do not use any cleaner / solvent.
- Do not wash the sensor with water.
- Do not disassemble, rebuild or repair the sensor yourself, otherwise an electric shock may occur.
- Always contact your installer or service engineer when changing the settings.
- Do not paint the detection window.

- NOTE**
- When turning the power ON, always walk-test the detection area to ensure the proper operation.
 - Do not place any objects that move or emit light in the detection area. (e.g. plant, illumination, etc.)

TROUBLESHOOTING

Door operation	Possible cause	Possible countermeasures
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 (Ghosting)	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 detection 1st row spots are overlapping with the door / header.	Adjust the detection area to deep (outside).
	There is a 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.
Door stay 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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