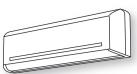




OA-203C



5911186 DEC 2021

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.

NARNING Failure to follow the instructions that accompany this indication and improper handling may result in serious injury or death.

! CAUTION

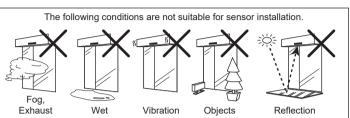
NOTE

Failure to follow the instructions that accompany this indication and improper handling may result in injury and/or damage to

Pay special attention to sections with this symbol



- 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
- 2. When setting the sensor's detection area, make sure that there is no traffic around the installation site.
- 3. Before turning the power ON, check the wiring to prevent damage or malfunction of equipment connected to the product.
- 4. Only use the product as specified in the operation manual provided.
- 5. Be sure to install and adjust the sensor in accordance with the local laws and standards of the country in which the product is
- 6. 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.
- 7. 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.



Danger of electric shock

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

1 Area adjustment tool

Specifications			
Model	: OA-203C	Output	: Form C relay 50 V 0.3 A Max.
Cover color	: Silver/Black/White		(Resistance load)
Mounting height	: 3.0 m (9'10") Max.	Output hold time	: Approx. 500 ms
Detection area	: See Detection area	Response time	: < 300 ms
Detection method	: Active infrared reflection	Operating temperature	: -20 °C to +55 °C (-4 °F to +131 °F)
Depth angle adjustment	: ±4° (1 clicks with 1°every click-Left/Right)	Weight	: 200 g (9.2 oz)
Width angle adjustment	: ±7° (2 clicks with 3.5°every click-Left/Right)	Accessories	: 1 Cable 3 m (9'10")
Power supply	: 12 to 30 VAC/DC		2 Mounting screws
Current draw	: 160 mA Max. (At 12 VAC)		1 Operation manual
Operation indicator	: See Operation indicator table		1 Mounting template

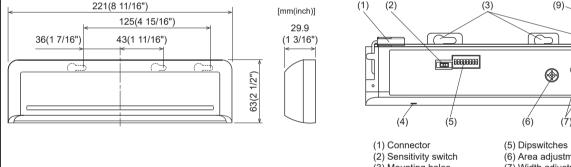
Operation indicator table

Status	Operation indicator color							
Stand-by	Green							
1st row detection	Red							
2nd to 4th row detection	Orange							



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

Outer dimensions and part names

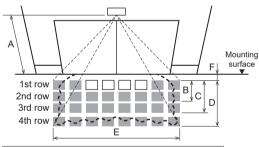


- (3) Mounting holes (4) Operation indicator
- (6) Area adjustment screw (7) Width adjustment shutters
- (8) Detection window (9) Area adjusting tool

(6)

Detection area

Detection areas are shown in the figure below.



<			>					
: Emitting spots (Can be eliminated)								
: Detection area								
Provided detection row type	1st	2nd	3rd	4th				
Presence detection	0	0	×	×				

(Can be eliminated)			
1st	2nd	3rd	4th
0	0	×	×
0	0	0	0
1	lst O	St 2nd O O O	

After adjustment, turn the power OFF and ON again, be sure to walk-test all of

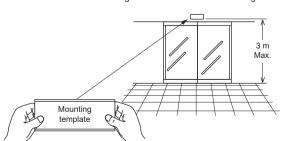
* The values of the chart below is of the emitting spots , but not of the detection area the color/material of object and the floor as well as the entry speed of object.

A 2.00 (6'7") 2.20 (7'3") 2.50 (8'2") 2.70 (8'10") 3.00 (9'10")

2.00 (07)	2.20 (7 0)	2.50 (02)	(0.10)	3.00 (3.10.)
0.28 (11")	0.31 (1')	0.35 (1'2")	0.38 (1'3")	0.41 (1'4")
0.68 (2'3")	0.75 (2'6")	0.85 (2'9")	0.92 (3')	1.02 (3'4")
1.18 (3'10")	1.30 (4'3")	1.48 (4'10")	1.59 (5'3")	1.77 (5'10")
2.10 (6'11")	2.30 (7'7")	2.60 (8'6")	2.80 (9'3")	3.10 (10'2")
0.16 (6")	0.18 (7")	0.20 (8")	0.22 (9")	0.25 (10")
	0.28 (11") 0.68 (2'3") 1.18 (3'10") 2.10 (6'11")	0.28 (11")	0.28 (11") 0.31 (1') 0.35 (1'2") 0.68 (2'3") 0.75 (2'6") 0.85 (2'9") 1.18 (3'10") 1.30 (4'3") 1.48 (4'10") 2.10 (6'11") 2.30 (7'7") 2.60 (8'6")	0.28 (11") 0.31 (1') 0.35 (1'2") 0.38 (1'3") 0.68 (2'3") 0.75 (2'6") 0.85 (2'9") 0.92 (3') 1.18 (3'10") 1.30 (4'3") 1.48 (4'10") 1.59 (5'3") 2.10 (6'11") 2.30 (7'7") 2.60 (8'6") 2.80 (9'3")

Installation

- 1. Mounting a. Place the mounting template at the desired mounting position.
- b. Drill two mounting holes of ø3.4 mm (ø1/8"). c. To pass the cable through the header, drill a wiring hole of
- ø8 mm (ø5/16").
- d. Remove the mounting template. e. Remove the housing cover.
- Fix the sensor to the mounting surface with the two mounting screws.





Be sure that the mounting position is within the value of those in Specifications.

2. Wiring

a. Wire the cable to the door controller.



Power supply
12 to 30 VAC/DC Grey Grey White COM. Green : N.C.

/!\ WARNING Danger of electric shock

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

b. Plug the connector for the sensor to that for the cable



3. Turn ON the power

- a. Plug the connector.
- b. Supply power to the sensor. Adjust the detection area and set the dipswitches. (See Adjustments 4. Dipswitch settings)

/! WARNING Danger of electric shock Make sure that you connect the cable correctly to the control unit of the door before turning the power ON.

4. Mounting the housing cover

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



/! WARNING Danger of electric shock

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.

Adjustments

1. Area width adjustment

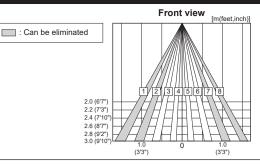
Adjust the detection area width with the width adjustment shutters



NOTE 1 2 cannot be eliminated separately, neither can 7 8



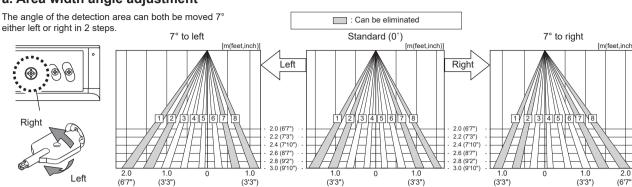


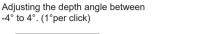


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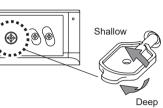
2. Area angle adjustment

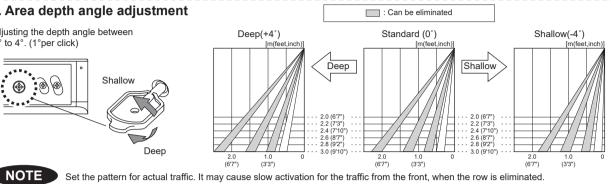
a. Area width angle adjustment





b. Area depth angle adjustment





3. Setting the sensitivity

Normally set to "M".

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

actory	/ default setting : M					
l. Dip	switch settings	F	actory defau	ılt settings		
Dip switch No.	Function		Sett	ing		Comment
1	D	2 s	15 s ● □	180 s	8	The 1st and 2nd rows have the presence detection function. (1) Select the presence detection time. (2) Turn the power OFF and ON again. Otherwise it may leave door open

LMH

2	Presence timer	2 s • • 1 2	15 s • • 1 2	180 s	0 0 1 2	The 1st and 2nd rows have the presence detection function. (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 s before entering the detection area to set the presence timer.			
3	Frequency	Setting1	Setting2	Setting3	Setting4	When using more than one sensor close to each other, set the frequency different for each sensor.			
5	Snow mode	Normal	Immunity	Snow mode	Heavy snow mode	Set this switch to "Snow mode" or "Heavy snow mode" if the sensor is used in a region with snow or a lot of insects. Or set this switch to "Immunity" when the sensor operates by itself.			
6		5 6	5 6	5 6	5 6	(Ghosting)			
7	Area depth	4 rows 7 8	3 rows 7 8	2 rows 7 8	1 row 7 8	Cat the death raws with this switches			
8	adjustment	/ °/		/ 8	/ 8	Set the depth rows with this switches.			

Checking

Check the operation in the operation mode according to the chart below.

- 1		•					
		Power OFF	Outside of detection area	Entry into 3rd or 4th row_	Entry into 2nd row	Entry into 1st row	Outside of detection area
	Entry	*	*//				
	Status	-	Stand-by	Motion detecion active	Motion/presence	e detection active	Stand-by
١	Operation indicator	None	Green	Ora	Orange		Green
	Output	Yellow O— Green White	O— Yellow Green White		Yellow O— Green White		O— Yellow Green White

NOTE The door may open once after the power is switched ON.

Inform building owner/operator of the following items

<u>✓!</u> WARNING

- 1. Always keep the detection window clean. If dirty, wipe the window with a damp cloth. Do not use any cleaner/solvent. 2. Do not wash the sensor with water.
- 3. Do not disassemble, rebuild or repair the sensor yourself, otherwise an electric shock may occur.
- 4. Always contact your installer or service engineer when changing the settings. 5. Do not paint the detection window.

- 1. When turning the power ON, alwayswalk-test the detection area to ensure the proper operation. 2. Do not place any objects that move oremit light in the detection area. (e.g. plant, illumination, etc.)

Troubleshooting Possible cause Door operation Possible countermeasures Set to the stated voltage Wrong power supply voltage Door does not open when a Wrong wiring or connection failure. Check the wires and connector. person enters the detection Short presence timer. Set the presence timer longer. area. Wipe the detection window with a damp cloth. Dirty detection window. Do not use any cleaner or solvent. Objects that move or emit light in the detection area. Remove the objects. Vibration of the header. Secure the header. Or set the sensitivity switch to "L". Sensitivity is too high. Set the sensitivity switch to "L". Use the rain-cover. (Separately available) Or wipe the Door opens when no one is Waterdrops on the detection window detection window with a damp cloth. Do not use any cleaner in the detection area. or solvent. Or install in a place keeping the waterdrops off. (Ghosting) Set the different frequency position each other. Detection area is interfered the area of another sensor. The detection area overlaps with the door/header. Adjust the detection area to "Deep" (Outside). Check the dipswtich 5,6. Sudden change in the detection area. If the problem still persists, hard-reset the sensor, (Turn the power OFF and ON again.) Wipe the detection window with a damp cloth. Dirty detection window. Do not use any cleaner or solvent. Sensitivity is too low Set the sensitivity switch to "H". Door remains open. Check the dipswtich 1,2.

OPTEX CO., LTD.

Presence timer is set to infinity

Manufacturer

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Or sudden change in the detection area

EMEA Subsidiary **OPTEX Technologies B.V.**

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If the problem still persists, hard-reset the sensor.

North and South America Subsidiary

(Turn the power OFF and ON again.)

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