

OA-72C



5919375 JAN 2023

Manufacturer's statement

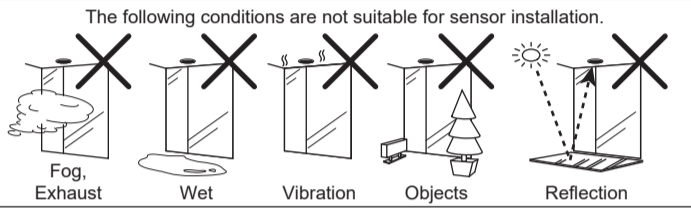
Read this operation manual carefully before use to ensure proper operation of this product. Failure to read this operation manual may cause improper operation and may result in serious injury or death of a person. The meanings of the symbols are as follows.

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

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

NOTE Pay special attention to sections with this symbol.

- NOTE**
- This product is a non-contact switch intended for ceiling mount for use on automatic sliding doors. 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
Danger of electric shock
 Do not wash, disassemble, rebuild or repair the sensor, otherwise it may cause electric shock or breakdown of the equipment.

Specifications

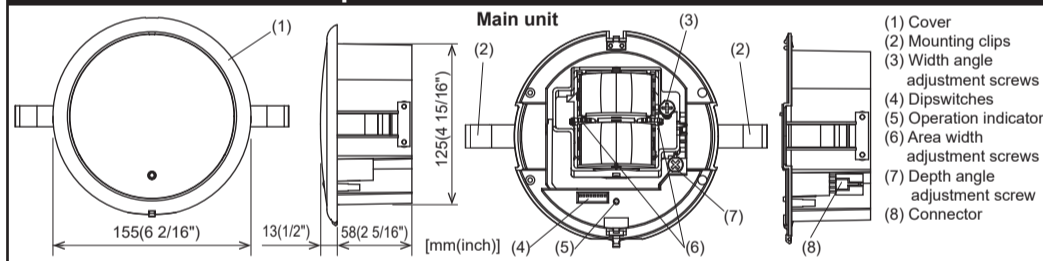
Model	: OA-72C	Operation indicator	: See Operation indicator table
Cover color	: Silver	Output	: Form C relay
Mounting height	: 2.0 (6'7") to 4.0 m (13'1")		: 50 V 0.3 A max. (resistance load)
Detection area	: See Detection area	Output hold time	: Approx. 500 ms
Detection method	: Active infrared reflection	Response time	: < 300 ms
Depth angle adjustment	: -15° to +10°	Operating temperature	: -20°C to +55°C (-4°F to 131°F)
Width angle adjustment	: -10° to +10°	Weight	: 320 g (11.2 oz)
Power supply	: 12 to 24 VAC ±10% (50/60 Hz)	Accessories	: 1 Cable 3 m (9'10")
	: 12 to 30 VDC (±10%)		: 1 Operation manual
Power consumption	: < 1.5 W (< 5 VA at AC)		: 1 Mounting template

Operation indicator table

Status	Operation indicator color
Stand-by	Green
1st row detection	Red
2nd to 5th rows detection	Orange
Signal saturation	Slow Green blinking
Sensitivity too low(Or sensor failure)	Fast Green blinking

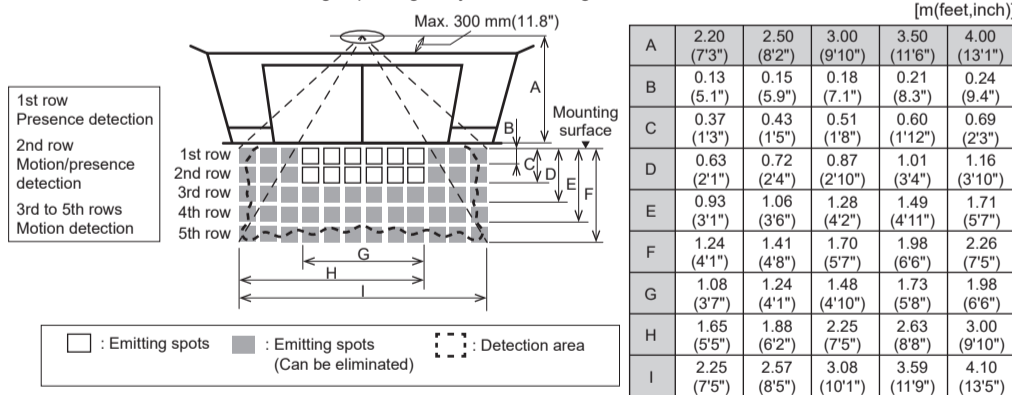
NOTE The specifications herein are subject to change without prior notice due to improvements.

Outer dimensions and part names



Detection area

Charts show the values in the following depth angle adjustment settings ; 0°



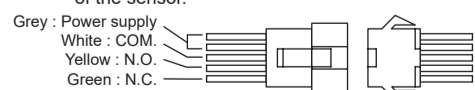
NOTE The actual detection area may become smaller depending on the ambient light, the color/material of the object or the floor as well as the entry speed of the object. *The values of the chart above is of the emitting spots, but not of the detection area.

Installation

- Affix the mounting template at the desired mounting position.
 - Drill a mounting hole. (Recommended diameter : ø130 mm (5"))
 - Remove the mounting template.

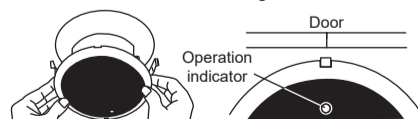
CAUTION Risk of getting caught
 Make sure that the cover faces the floor surface. When it faces the wall or the ceiling, the sensor may not operate properly.

- Remove the cover from the sensor.
 - Plug the connector of the cable to the connector of the sensor.



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.

- Install the sensor with cover, keeping the direction of operation indicator towards the door.
 - Press the mounting clips against the sensor to place the sensor into the mounting hole.



- Supply power to the sensor. Adjust the detection area and set the dipswitches. (See **Adjustments**)

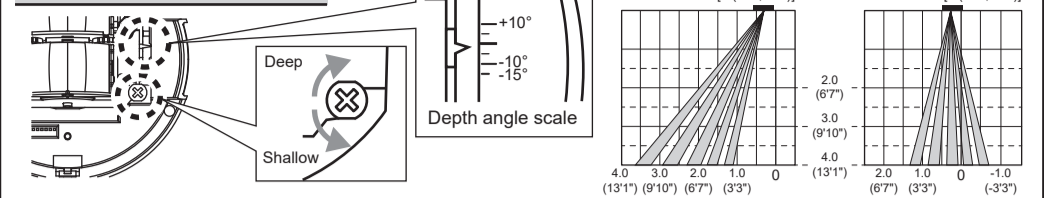
NOTE To enable the presence detection, do not enter the detection area for 10 s after supplying the power.

- Mount the cover on the sensor. Mount the cover by making a small gap between sensor and ceiling.

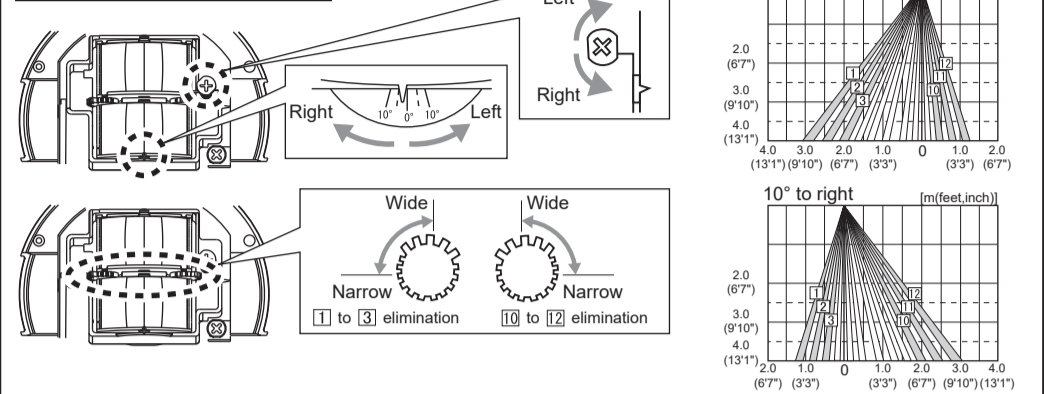


Adjustments

1. Depth angle adjustment



2. Width angle adjustment



3. Dipswitch setting

Factory default settings

No.	Function	Setting				Comment
1	Sensitivity	Low 1	High 1			Special attention to the setting is required when the door is used often by the elderly or children. Please adjust the sensitivity and the presence timer according to your risk assessment.
2	Mounting height	2 to 3 m 2	2.7 to 4 m 2			Select one of them according to the mounting height at the installation site.
3	Presence timer	30 s 3	60 s 3	180 s 3	600 s 3	1st and 2nd rows include presence detection function.
4		3 4 4	3 4 4	3 4 4	3 4 4	
5	Frequency	Setting 1 5	Setting 2 5			When using more than one sensor close to each other, set the frequency different for each sensor.
6	Snow mode	OFF 6	ON 6			Set this switch to "ON" if the sensor is used in a region with snow or a lot of insects.
7	Area adjustment	5 rows 7	4 rows 7	3 rows 7	2 rows 7	Adjust the area detection depth by selecting the dipswitches.
8		7 8 8	7 8 8	7 8 8	7 8 8	

Checking

Check the operation according to the chart below.

Entry	Power OFF	Outside of detection area	Entry into 3rd, 4th or 5th row	Entry into 2nd row	Entry into 1st row	Outside of detection area
Status	-	Stand-by	Motion detection active	Motion/presence detection active	Presence detection	Stand-by
Operation indicator	None	Green	Orange		Red	Green
Output	COM N.O. N.C.	COM N.O. N.C.	COM N.O. N.C.		COM N.O. N.C.	COM N.O. N.C.

Inform building owner/operator of the following items

- WARNING**
- Always keep the cover clean. If dirty, wipe the cover 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.
 - When the operation indicator blinks Green, contact your installer or service engineer.
 - Always contact your installer or service engineer when changing the settings.
 - Do not paint the cover.

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

Troubleshooting

Door operation	Operation indicator	Possible cause	Possible countermeasures
Door does not open when a person enters the detection area.	None	Power supply voltage. Wrong wiring or connection failure.	Set to the stated voltage. Check the wires and connector.
	Unstable	Wrong detection area positioning. Sensitivity is too low. Short presence timer. The cover is dirty.	Check Adjustments 1 & 2 . Set the sensitivity higher. Set the presence timer longer. Wipe the cover with a damp cloth.
Door opens when no one is in the detection area. (Ghosting)	Unstable	The detection area overlaps with that of another sensor.	Check Adjustments 3 .
		The detection area overlaps with the door/header.	Adjust the detection area to "Deep" (Outside).
		Sensitivity is too high.	Set the sensitivity lower.
		The sensor is used in a region with snow. Objects that move or emit light in the detection area. Wet floor. The exhaust emission or fog penetrate into the detection area.	Set the snow mode to "ON". Remove the objects. Check the installation condition referring to Manufacturer's statement .
Door remains open.	Proper Red or Orange	Wrong wiring or connection failure. Sudden change in the detection area.	Check the wires and connector. Check Adjustments 3 . If the problem still persists, hard-reset the sensor. (Turn the power OFF and ON again.)
	Fast Green blinking	Sensitivity is too low. Sensor failure.	Set the sensitivity higher. Or set area width to "Wide". Contact your installer or service engineer.
	Slow Green blinking	Signal saturation. The detection area overlaps with the door/header.	Remove highly reflecting objects from the detection area or lower the sensitivity or change the area angle. Adjust the detection area to "Deep" (Outside).
Door remains closed.	Proper	Wrong wiring or connection failure.	Check the wires and connector.

Contact

Europe, Middle-East and Africa Subsidiary
OPTEX TECHNOLOGIES B.V.
 Henricuskade 17, 2497 NB The Hague, The Netherlands
 www.optex-europe.com Tel : +31(0)70 419 41 00



North and South America Subsidiary
OPTEX INCORPORATED
 10741 Walker Rd. Suite 300 Cypress, CA 90630 U.S.A
 www.optexamerica.com Tel : +1(800)877 6656



Manufacturer

OPTEX CO., LTD.
 5-8-12, Ogoto, Otsu, Shiga, 520-0101 Japan

Legal representative (UK only)

OPTEX (EUROPE) LTD.
 Unit 13 Cordwallis Park Clivemont Road
 SL6 7BU Maidenhead, Berkshire
 United Kingdom