



5911754 JUL 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.

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

NOTE

Pay special attention to sections with this symbol

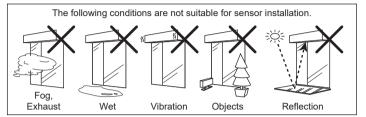


This product is a non-contact switch intended for header mount or ceiling mount for use on an automatic sliding door.

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

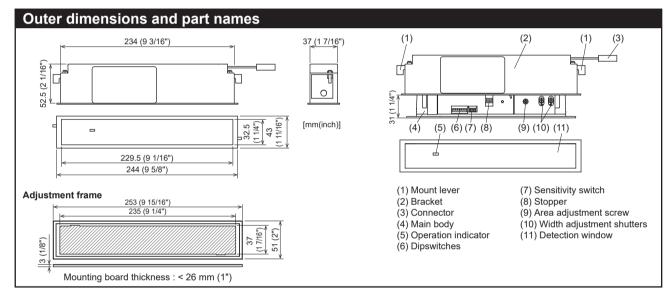
Do not wash, disassemble, rebuild or repair the sensor, otherwise it may cause electric shock or breakdown of the equipment.

Specifications			
Model	: MIRAGE	Output	: Form C relay 50 V 0.3 A Max.
Cover color	: Black		(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	: 260 g (9.2 oz)
Power supply	: 12 to 30 VAC/DC	Accessories	: 1 Cable 3 m (9'10")
Current draw	: 200 mA Max. (At 12 VAC)		Operation manual
Operation indicator	: See Operation indicator table		Area adjustment tool
			1 Adjustment frame

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.



Detection area

Detection areas are shown in the figure below. Mounting 1st row 2nd row 3rd row 4 4th row 2-----

> : Emitting spots (Can be eliminated)

> > 0 0 0 0

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 actual detection area may become smaller depending on the ambiance light and the color/material of object and the floor as well as the entry speed of object.

					[m(feet,inch)]
Α	2.00 (6'7")	2.20 (7'3")	2.50 (8'2")	2.70 (8'10")	3.00 (9'10")
В	0.42 (1'5")	0.47 (1'7")	0.53 (1'9")	0.57 (1'11")	0.64 (2'2")
С	0.85 (2'10")	0.94 (3'2")	1.07 (3'7")	1.15 (3'10")	1.28 (4'3")
D	1.50 (4'12")	1.65 (5'5")	1.88 (6'3")	2.03 (6'8")	2.25 (7'5")
Е	2.07 (6'10")	2.28 (7'6")	2.59 (8'6")	2.80 (9'3")	3.11 (10'3")
F	0.21 (8")	0.23 (9")	0.26 (10")	0.28 (11")	0.31 (1')

Installation

: Emitting spots

: Detection area

Presence detection Motion detection

1. Drill the mounting hole either under the header or ceiling. 235 (9 1/4")

Provided detection row type 1st 2nd 3rd 4th

Mounting hole size

that for the cable.

5. Plug the connector for the sensor to

Fold the mounting levers inside. Point the arrow sign inside of the bracket to the doorside, then insert the bracket

7. Fix the bracket in the mounting hole with the screws on both sides.

8. When the mounting holes are exposed,

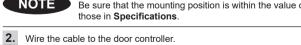
use the adjustment frame.

into the mounting hole.

NOTE

!\ CAUTION The cable between the main body and the bracket cannot be removed. Do not pull the cable strongly, otherwise it may be damaged.

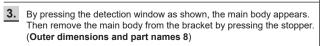
NOTE Be sure that the mounting position is within the value of those in Specifications.







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.



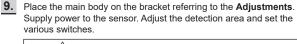


detection window









Be sure to fix firmly, otherwise

the sensor may fall off resulting in injures

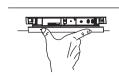
/! WARNING Danger of electric shock Make sure that you connect the cable correctly to the control unit of the door before turning the power ON.

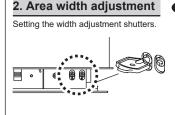
Adjustments

1. Fixing and removing the main body

Place the main body in the bracket, paying attention to direction of the sensor. Main body can be fixed in the bracket when pushing the detection window fully. Main body (Setting part) appears when pushing the detection window again.

After adjustment, check the operation when the main body is placed in the bracket.





Eliminate

1 2

Eliminate

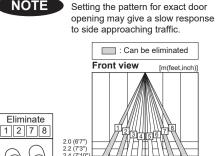
7 8

(B)

Opens

all areas

(B)



3. Area depth angle adjustment : Can be eliminated Adjusting the depth angle between -4° to 4° (1°per click). Deep(+4°) Standard (0°) Shallow(-4°) Deep Shallow NOTE

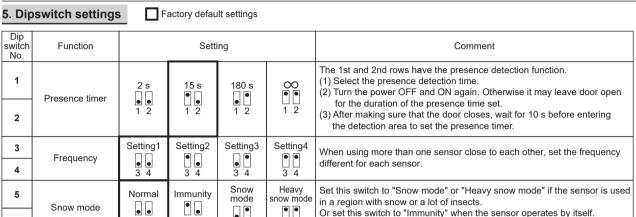
(3'3" Set the pattern for actual traffic. It may cause slow activation for the traffic from the front, when the row is eliminated

4. Setting the sensitivity

Normally set to "M".

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

Factory default setting: M



5 Or set this switch to "Immunity" when the sensor operates by itself. 6 (Ghosting) 4 rows 3 rows 2 rows 7 Area depth Set the depth rows with this switches. adjustment 8 Checking

Check the operation in the operation mode according to the chart below Outside of Entry into 3rd or Outside of Power OFF Entry into 2nd row Entry into 1st row detection area Entry Motion detection Stand-by Motion/presence detection active active Orange Operation indicato None Green Green Yellow Yellow Yellow Yellow o- Green Green O- Green Output Green

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

Inform building owner/operator of the following items

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

Manufacturer

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