

5811753 APR 2016

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.

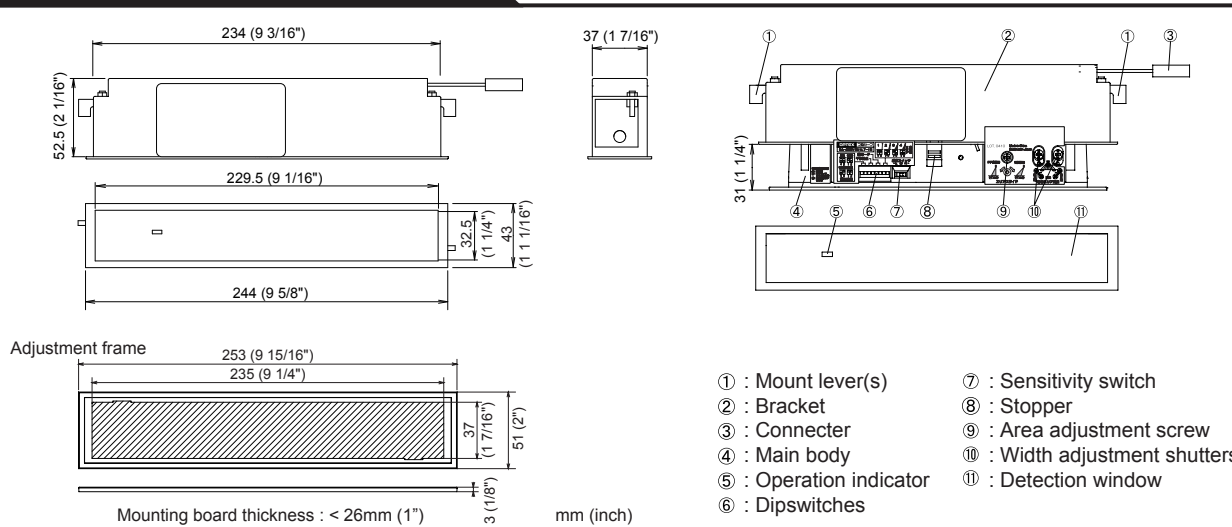
	WARNING	Do not wash, disassemble, rebuild or repair the sensor, otherwise it may cause electric shock or breakdown of the equipment.
Danger of electric shock		

- 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

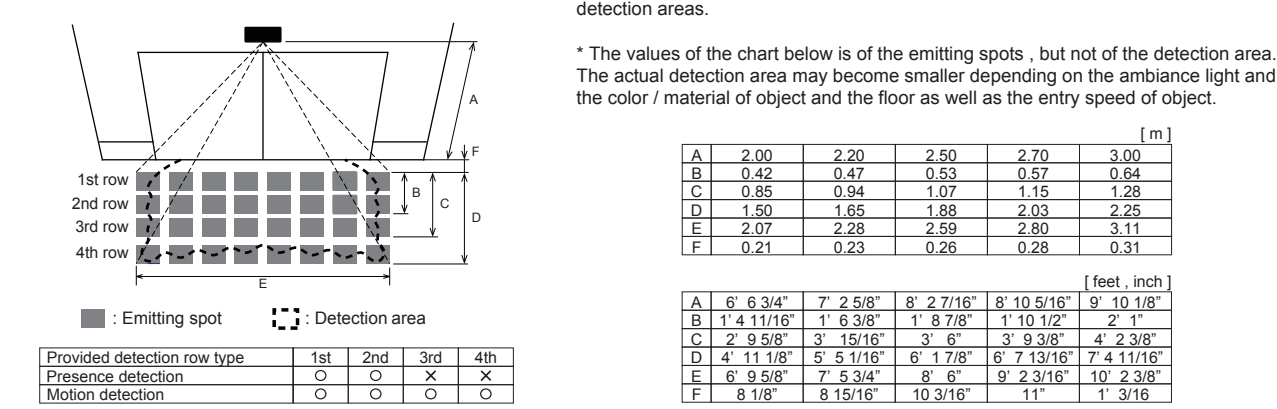
SPECIFICATIONS

Model	: MIRAGE	Output	: "Form C" relay 50V 0.3A Max. (Resistance load)
Cover color type	: Black	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	: 260g (9.2oz)
Detection angle adjustments	: ±4° adjustable by 1° every one click (Deep / Shallow)	Accessories	: 1 Cable 3m (9'10") 1 Operation manual 1 Area adjustment tool 1 Adjustment frame
Detection width adjustments	: 4 type selectable with adjustment shutters (Not angle adjustment)		
Power supply	: 12 to 30VAC / DC		
Current draw	: 200mA 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.


INSTALLATION

- Drill the mounting hole either under the header or ceiling.

NOTE Be sure that the mounting position is within the value of those in "SPECIFICATIONS".
- The cable is arranged to connect to the door controller properly as shown below.

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

WARNING Connect the cable when main power is turned OFF.
Danger of electric shock
- Pressing the detection window

Pressing the stopper

By pressing the detection window as shown, the main body appears. Then remove the main body from the bracket by pressing the stopper. (OUTER DIMENSIONS AND PART NAMES 8)
- CAUTION**

The cable between the main body and the bracket cannot be removed. Do not pull the cable strongly, otherwise it may be damaged.
- Plug the connector for the sensor to that for the cable.
- Fold the mounting levers inside. Point the arrow sign inside of the bracket to the doorside, then insert the bracket into the mounting hole.
- Fix the bracket in the mounting hole with the screws on both sides.

NOTE Be sure to fix firmly, otherwise the sensor may fall off resulting in injuries.
- When the mounting holes are exposed, use the adjustment frame.
- Place the main body on the bracket referring to the "ADJUSTMENTS". Supply power to the sensor. Adjust the detection area and set the various switches.

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

ADJUSTMENTS

- 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.
- Adjusting the pattern width**

Setting the width adjustment shutters.

NOTE Setting the pattern for exact door opening may give a slow response to side approaching traffic.
- 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.
- Setting of sensitivity switch and dipswitches**

Setting the sensitivity

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

Setting the presence timer

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

(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 seconds before entering the detection area to set the presence timer.

Setting the frequency function (Interference prevention)

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

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

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.	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	The exhaust of the car and the fog penetrate into the detection area.	
	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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