

MANUFACTURER'S STATEMENT

Read this operation manual carefully before use to ensure proper operation of the sensor.  
Failure to read this operation manual may cause improper sensor operation and may result in serious injury or death of person. The meanings of the symbols are as follows. Please study the following first and then read the contents of this operation manual.

<b>WARNING</b>	Disregard of warning may cause the improper operation causing death or serious injury of person.
<b>CAUTION</b>	Disregard of caution may cause the improper operation causing injury of person or damage to objects.
<b>NOTE</b>	Special attention is required to the section of this symbol.

- NOTE**
- This sensor is a non-contact switch intended for header mount / wall mount of an automatic door.  
Do not use for any other applications. This sensor cannot be used for industrial doors or shutters, when used, proper operation and safety cannot be guaranteed.
  - When setting the sensor's detection area, make sure there is no traffic around the installation site.
  - Before turning the power on, check the wiring to prevent damage or malfunction of equipments that are connected to the sensor.
  - Only use the sensor as specified in the operation manual provided.
  - Be sure to install the sensor in accordance with the local laws and standards of the country in which the sensor is installed.
  - Before leaving the job site make sure that the sensor is operating properly and instruct the building owner/operator on proper operation of the door and the sensor.
  - The sensor setting can only be changed by an installer or service engineer. When changed, register the changed setting and dates in the maintenance logbook accompanying the door.

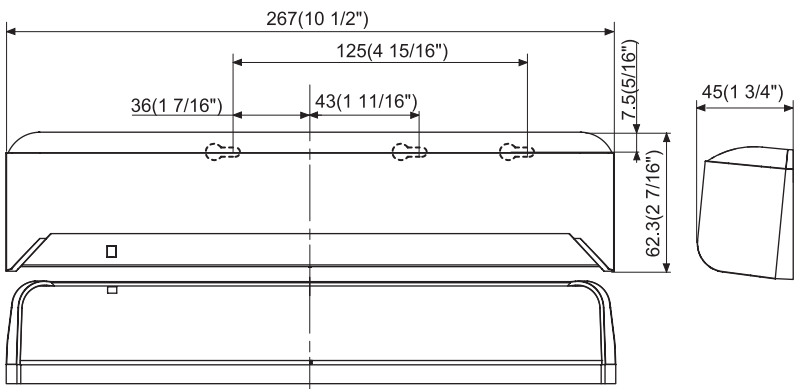
<b>WARNING</b>	Do not wash, disassemble, rebuild or repair the sensor, otherwise it may cause electric shock or breakdown of equipments.
Danger of electric shock.	

SPECIFICATIONS

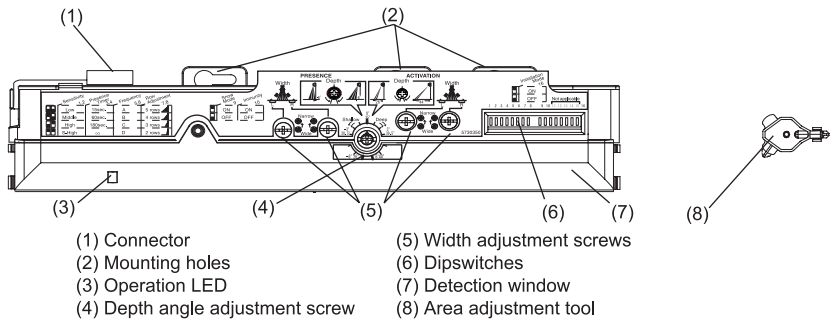
Model	: OA-AXIS I / OA-AXIS II	Output	: OA-AXIS I / Form C relay
Cover color	: Silver / Black		50V 0.3A Max. (Resistance load)
Mounting height	: 2.0 (6'7") to 3.5m (11'5")		OA-AXIS II /
Detection area	: See DETECTION AREA		1st to 3rd rows / Form C relay
Detection method	: Active Infrared Reflection		50V 0.3A Max. (Resistance load)
Depth angle adjustment	: 1st to 3rd rows / -6° to +6° 4th and 5th rows / +26° to +44°		3rd to 5th rows / Form C relay
Power supply	: 12 to 24VAC(±10%) 12 to 30VDC(±10%)	Output hold time	: Approx. 0.5 sec.
Power consumption	: OA-AXIS I < 3VA OA-AXIS II < 4VA	Response time	: <0.3 sec.
Operation LED	: Green / Stand-by Blinking Red / 1st row detection Red / 2nd row detection Orange / 3rd to 5th rows detection	Operating temperature	: -20 to +55°C(-4 to 131°F)
		IP rate	: IP44
		Weight	: 320g (11.2oz)
		Accessories	: 1 Cable 3m (9'10") 1 Operation manual 2 Mounting screws 1 Mounting template 1 Area adjustment tool

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

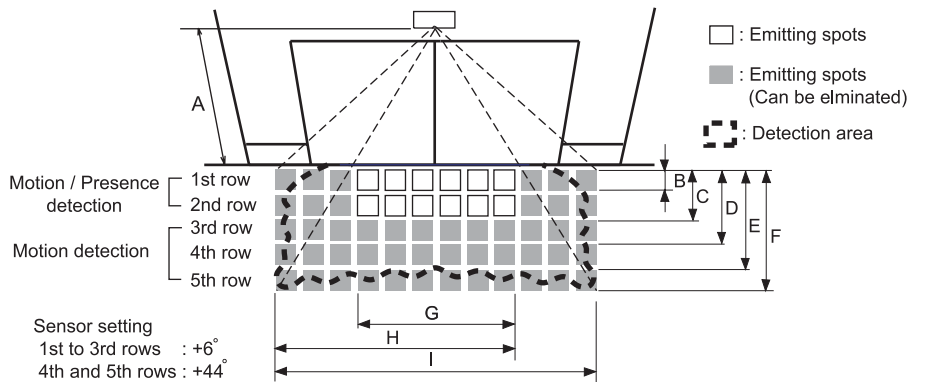
OUTER DIMENSIONS AND PART NAMES



[mm (inch)]



DETECTION AREA



[m(feet,inch)]

A	2.20(7'2 5/8")	2.50(8'2 7/16")	2.70(8'10 5/16")	3.00(9'10 1/8")	3.50(11'5 13/16")
B	0.14(5 1/2")	0.16(6 5/16")	0.18(7 1/16")	0.20(7 7/8")	0.23(9 1/16")
C	0.42(1'4 9/16")	0.48(1'6 7/8")	0.52(1'8 1/8")	0.58(1'10 13/16")	0.67(2'2 3/8")
D	0.82(2'8 5/16")	0.93(3' 5/8")	1.00(3'3 3/8")	1.10(3'7 5/16")	1.30(4'3 3/16")
E	1.35(4'5 1/8")	1.54(5' 5/8")	1.66(5'5 3/8")	1.85(6' 13/16")	2.16(7'1 1/16")
F	1.90(6'2 13/16")	2.17(7'1 7/16")	2.34(7'8 1/8")	2.60(8'6 3/8")	3.03(9'11 5/16")
G	1.33(4'4 3/8")	1.51(4'11 7/16")	1.63(5'4 3/16")	1.81(5'11 1/4")	2.11(6'11 1/16")
H	2.05(6'8 11/16")	2.32(7'7 5/16")	2.51(8'2 13/16")	2.79(9'1 13/16")	3.26(10'8 3/8")
I	2.78(9'1 7/16")	3.15(10'4")	3.40(11'1 7/8")	3.79(12'5 3/16")	4.42(14'6")

**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.

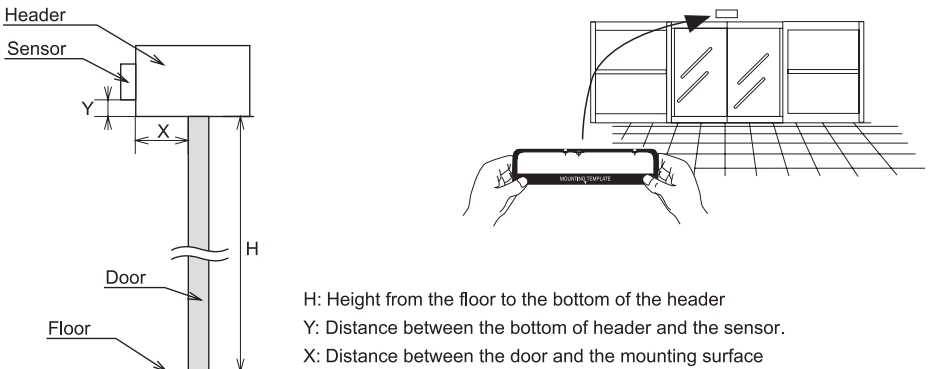
\*The values of the chart above is of the emitting spots, but not of the detection area.

INSTALLATION

- NOTE**
- The following conditions are not suitable for the sensor installation.
- Fog or exhaust emission around the door.
  - Wet floor
  - Vibrating header or mounting surface.
  - Moving objects or a heating radiator in the detection area.
  - Highly reflecting floor or the presence of highly reflecting objects around the door.



- Affix the mounting template at the desired mounting position.
- Drill two mounting holes of ø3.4mm (ø1/8").
- To pass the cable through to the header, drill a wiring hole of ø8mm (ø5/16").
- Remove the mounting template.
- Remove the housing cover. Attach the sensor to the mounting surface with two mounting screws.



Maximum mounting distance (Y) [mm(feet,inch)]

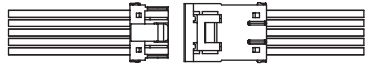
X \ H	2,000 (6' 6")	2,200 (7' 2")	2,500 (8' 2")	3,000 (9' 10")
0	No limit			
50 (1 15/16")	200 (7 7/8")	200 (7 7/8")	200 (7 7/8")	200 (7 7/8")
100 (3 15/16")	200 (7 7/8")	200 (7 7/8")	200 (7 7/8")	200 (7 7/8")
150 (5 7/8")	130 (5 1/8")	150 (5 7/8")	170 (6 11/16")	200 (7 7/8")
200 (7 7/8")	-	110 (4 5/16")	130 (5 1/8")	150 (5 7/8")
250 (9 13/16")	-	-	-	120 (4 3/4")
300 (11 13/16")	-	-	-	-

<b>CAUTION</b>	Make sure to affix the mounting template as described in the above chart. Otherwise, it can be dangerous since there may be no presence detection area around the threshold. Install the sensor as low as possible on the header.
Risk of getting caught.	

**NOTE** The sensor mounting position may be limited depending on the header thickness and the mounting height.

- Wire the cable to the door controller properly as shown in the drawing below.

OA-AXIS I



Grey	Power supply
Grey	12 to 24VAC ±10%
Grey	12 to 30VDC ±10%
White	Common (COM.)
Yellow	Normally open (N.O.)
Green	Normally closed (N.C.)

OA-AXIS II



Grey	Power supply
Grey	12 to 24VAC ±10%
Grey	12 to 30VDC ±10%
White	Common (COM.)
Yellow	Normally open (N.O.)
Green	Normally closed (N.C.)
White Str.	Common (COM.)
Yellow Str.	Normally open (N.O.)
Green Str.	Normally closed (N.C.)
3rd to 5th * rows output	
1st to 3rd * rows output	

\*The outputs from the 3rd row overlaps.

<b>WARNING</b>	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.
Danger of electric shock.	

- Plug the connector of the sensor.
- Supply power to the sensor. Adjust the detection area and set the dipswitches. (See ADJUSTMENTS)

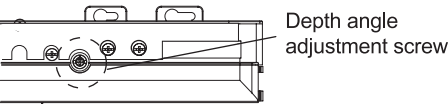
**NOTE** Make sure to connect the cable correctly to the door controller before turning the power ON. To enable the presence detection, do not enter the detection area for 10 seconds after supplying the power.

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

<b>WARNING</b>	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.
Danger of electric shock.	

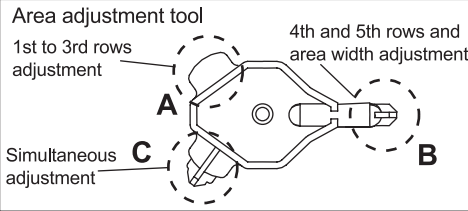
ADJUSTMENTS

1 Area depth angle adjustment



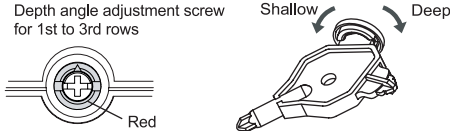
The detection area depth can be changed by the area adjustment tool.

When adjusting the 1st to 3rd rows close to the door, follow 3-7 Installation mode.



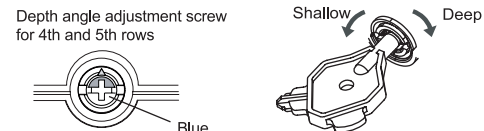
1-1. Independent adjustment

1st to 3rd rows

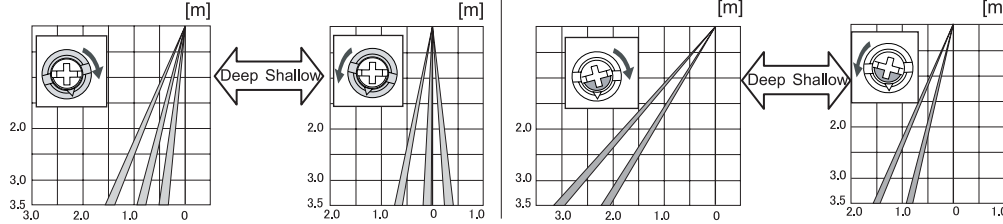


Use the area adjustment tool (A) as shown above and change the depth of the detection area by turning the depth angle adjustment screw.

4th and 5th rows



Use the area adjustment tool (B) as shown above and change the depth of the detection area by turning the depth angle adjustment screw.

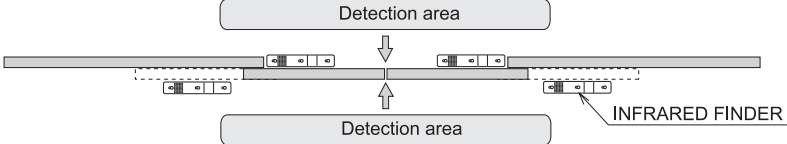


Check the area position with Red LED of the Operation LED using a tool such as a reflecting mirror.

**NOTE** Make sure the detection area does not overlap with the door / header, otherwise ghosting / signal saturation may occur.  
Do not place any highly reflecting objects in the detection area, otherwise signal saturation may occur.

REFERENCE Area depth adjustment with INFRARED FINDER (Separately available)

- Turn the depth adjustment screw to the right (Deep) to place the area most away from the door.
- Set INFRARED FINDER sensitivity to "H" (High) and place it on the floor as shown below.



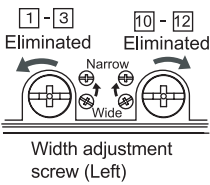
- Turn the depth adjustment screw to the left (Shallow) until the emitting area is placed at the position where INFRARED FINDER is in the low detection status (Slow Red blinking).

1-2. Simultaneous adjustment

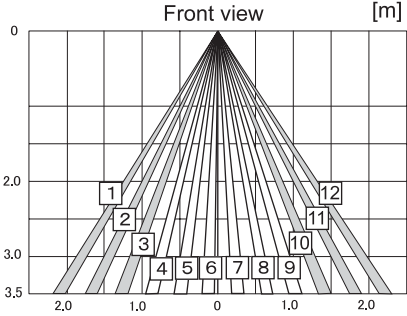
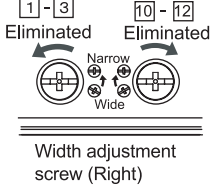
For the simultaneous adjustment of 1st to 5th rows, use the adjustment tool (C).

2 Width detection area adjustment

1st to 3rd rows

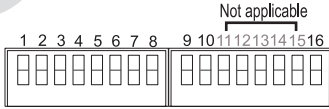


4th and 5th rows



**NOTE** The actual detection area may become smaller depending on the ambient light, the color / material of the object and the floor as well as the entry speed of the object.

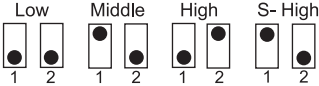
3 Dipswitch settings



- |     |                            |          |                     |
|-----|----------------------------|----------|---------------------|
| 1,2 | : Sensitivity              | 9        | : Snow mode         |
| 3,4 | : Presence detection timer | 10       | : Immunity          |
| 5,6 | : Frequency                | 11 to 15 | : Not applicable    |
| 7,8 | : Row adjustment           | 16       | : Installation mode |

3-1 Setting the sensitivity

Normally set to "Middle". " Low" decreases the sensitivity and "High / S-High" increases the sensitivity.



3-2 Setting the presence detection timer

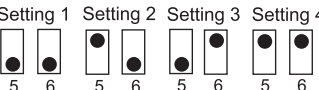
The 1st and 2nd rows have the presence detection function.  
The presence detection timer can be selected from 4 settings.



**NOTE** To enable the presence detection, do not enter the detection area for 10 seconds after setting the timer.

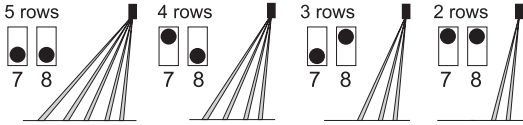
3-3 Setting the frequency

When using more than two sensors close to each other, set the different frequency for each sensor by combining dipswitch 5 and 6.



3-4 Setting the area depth

The 5th, 4th, and 3rd rows can be eliminated by combining dipswitches 7 and 8.

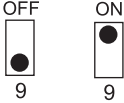


\*When 2 rows setting is selected, only the presence detection area remains.

**NOTE** Always check the area according to the expected entry speed and determine the appropriate number of rows.  
When setting motion and motion / presence detection area separately, make sure that there is no gap between two areas.

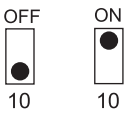
3-5 Setting the snow mode

Set this switch to ON, if the sensor is used in a region with snow.



3-6 Setting the immunity

Set this switch to ON, when less influence by the header vibration is required.



3-7 Installation mode

Use this switch to ON when adjusting the presence detection area close to the door face.

- \* During the installation mode, only the 1st row remain.
- \* Door open state
- \* Operation LED glows yellow.



CHECKING

Check the operation according to the chart below.

- |          |        |               |        |
|----------|--------|---------------|--------|
| ① White  | : COM. | ④ White Str.  | : COM. |
| ② Yellow | : N.O. | ⑤ Yellow Str. | : N.O. |
| ③ Green  | : N.C. | ⑥ Green Str.  | : N.C. |

Entry	Power off	Outside of detection area	Entry into 4th or 5th row	Entry into 3rd row	Entry into 2nd row	Entry into 1st row
Status	-	Stand-by	Motion detection active	Motion/Presence detection active	Presence detection	
Operation LED	None	Green	Orange		Red	Blinking Red
OA-AXIS I	Output	① ② ③	① ② ③	① ② ③		
OA-AXIS II	Output from 1st to 3rd rows*	④ ⑤ ⑥	④ ⑤ ⑥	④ ⑤ ⑥		
	Output from 3rd to 5th rows*	① ② ③	① ② ③	① ② ③	① ② ③	① ② ③

\*The outputs from the 3rd row overlaps.

INFORM BUILDING OWNER / OPERATOR OF THE FOLLOWING ITEMES

! WARNING

- Always keep the detection window clean. If dirty, wipe the window lightly with a damp cloth. (Do not use any cleaner or solvent.)
- Do not wash the sensor with water.
- Do not disassemble, rebuild or repair the sensor yourself, otherwise electric shock may occur.
- When an operation LED blinks green, contact your installer or service engineer.
- 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 proper operation.
- Do not place any objects that move or emit light in the detection area. (e.g. Plant, illumination, etc.)

TROUBLESHOOTING

Problem	Operation LED	Possible cause	Possible countermeasures
Door does not open when a person enters the detection area.	None	Power supply voltage.	Set to the stated voltage.
	Unstable	Wrong wiring or connection failure.	Check the wires and connector.
		Wrong detection area positioning.	Check <b>ADJUSTMENTS 1 &amp; 2</b> .
		Sensitivity is too low.	Set the sensitivity higher.
		Short presence detection timer.	Set the presence detection timer longer.
		Dirty detection window.	Wipe the detection window with a damp cloth. (Do not use any cleaner or solvent.)
Door opens when no one is in the detection area. (Ghosting)	Unstable	Vibration of the header.	Set the sensitivity lower or the immunity to ON.
		Water drops on the detection window.	Use the rain-cover (Separately available). Or install in a place keeping the waterdrops off.
		The detection area overlaps with that of another sensor.	Check <b>ADJUSTMENTS 3-3</b> .
		The detection area overlaps with the door / header.	Adjust the detection area to "Deep" (Outside).
		Reflecting objects in the detection area. Or reflecting light on the floor.	Remove the objects.
		Sensitivity is too high.	Set the sensitivity lower.
		It snows and pours.	Set the snow mode to ON.
		Objects that move or emit light in the detection area. (Ex.Plant, illumination,etc.)	Remove the objects.
		Wet floor. The exhaust emission or fog penetrate into the detection area.	Check the installation condition referring to <b>INSTALLATION</b> on the reverse side.
Door remains open	Red or Orange	Sudden change in the detection area.	Check <b>ADJUSTMENTS 3-1 &amp; 3-2</b> . If the problem still persists, hard-reset the sensor.(Turn the power OFF and ON again.)
	Proper	Wrong wiring or connection failure.	Check the wires and connector.
	Twice Green blinking	The relay is reaching the end of its life cycle.	Contact your installer or the sales engineer.
	Slow Green blinking	Signal saturation	Remove highly reflecting objects from the detection area. Or lower the sensitivity. Or change the area angle.
		The detection area overlaps with the door / header.	Adjust the detection area to "Deep" (Outside).
Door remains closed	Proper	Wrong wiring or connection failure.	Check the wires and connector.

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WEBSITE: www.secumatic.nl

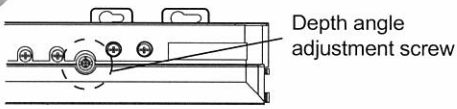






## ADJUSTMENTS

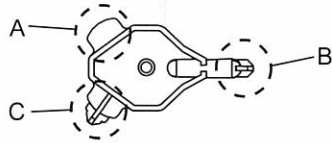
### 1 Area depth angle adjustment



When adjusting the 1st row close to the door, follow **3-9 Installation mode** for the easier adjustment.

**NOTE** Make sure that the detection area does not overlap with the door / header, and there is no highly reflecting object near the detection area otherwise ghosting / signal saturation may occur.

Area adjustment tool



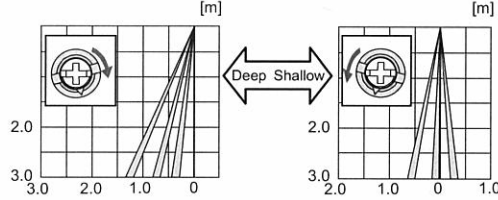
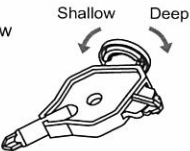
#### 1-1.Independent adjustment

##### 1st to 3rd rows

Depth angle adjustment screw for the 1st to 3rd rows



Use the area adjustment tool (A) as shown above to change the area depth angle for the 1st to 3rd rows.

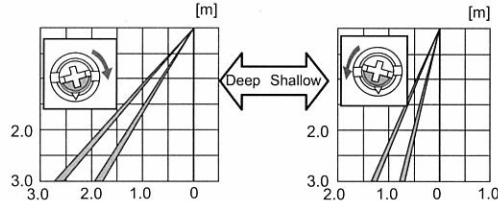
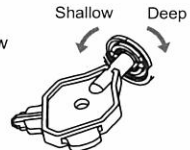


##### 4th and 5th rows

Depth angle adjustment screw for the 4th and 5th rows



Use the area adjustment tool (B) as shown above to change the area depth angle for the 4th and 5th rows.

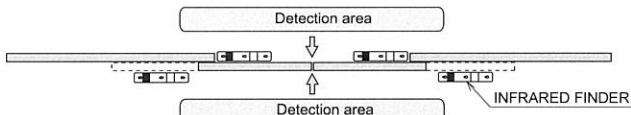


#### 1-2.Simultaneous adjustment

For the simultaneous adjustment of the 1st to 5th rows, use the adjustment tool (C).

#### REFERENCE Area depth adjustment with INFRARED FINDER (Separately available)

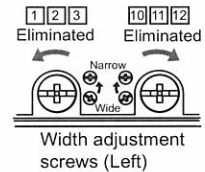
- Turn the depth angle adjustment screw to the right (Deep) to place the detection area most away from the door.
- Set INFRARED FINDER sensitivity to "H" (High) and place it on the floor as shown below.



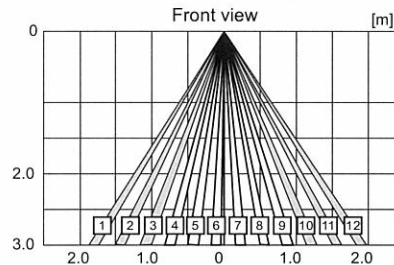
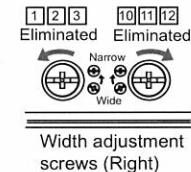
- Turn the depth angle adjustment screw to the left (Shallow) until the emitting area is placed at the position where INFRARED FINDER is in the low detection status (Slow Red blinking).

### 2 Area width adjustment

##### 1st to 3rd rows



##### 4th and 5th rows



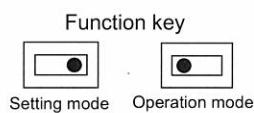
**NOTE** When adjusting the width adjustment screws, make sure to turn until it clicks otherwise the proper operation may not be obtained.

[1][2][3] cannot be eliminated separately, neither can [10][11][12].

### 3 Dipswitch settings

Follow these steps to change the settings of dipswitches.

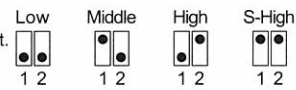
- Change the function key from the "Operation mode" to the "Setting mode". During the "Setting mode", the operation indicator is blinking Blue (only when stand-by status) and the door remains open.
- Change the dipswitch settings.
- When the setting is finished, change the function key back to the "Operation mode".



**NOTE** When the above procedures (1-3) are not followed, an error (Red & Green blinking) occurs. Make sure to use the sensor only in the "Operation mode". The sensor does not operate properly in the "Setting mode".

#### 3-1.Setting the sensitivity

Refer to the chart below for the suitable sensitivity to your installation environment.

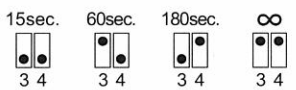


		Mounting height [ m (feet,inch) ]				For example
		2.0 (6' 6")	2.2 (7' 2")	2.5 (8' 2")	3.0 (9' 10")	
Floor condition	Low reflection	Middle	Middle	High	S-High	-Carpet -Dark color floor
	Middle reflection	Low	Middle	Middle	S-High	-Concrete
	High reflection	Low	Low	Middle	High	-Tile -Marble

**NOTE** 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 detection timer according to your risk assessment.

#### 3-2.Setting the presence detection timer

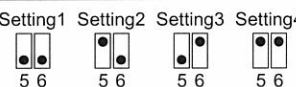
The 1st and 2nd rows have the presence detection function. To comply with DIN 18650, set the timer to "60sec." or more.



**NOTE** To enable the presence detection, do not enter the detection area for 10 seconds after setting the timer.

#### 3-3.Setting the frequency

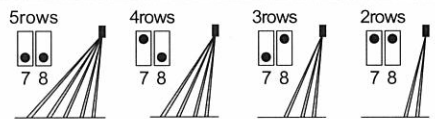
When using more than two sensors close to each other, set the different frequency for each sensor by dipswitches 5 and 6.



#### 3-4.Setting the row adjustment

Set the depth rows with dipswitches 7 and 8.

**NOTE** When "2rows" are selected, the activation output is disabled.



#### 3-5.Setting the immunity

Set dipswitch 9 to ON when the sensor operates by itself (Ghosting).

**NOTE** When dipswitch 9 is set to ON, the actual detection area may become smaller.



#### 3-6.Setting the self monitoring

Set dipswitch 10 to "Disable" when the self monitoring is not required. When set to "Disable", the sensor does not respond to the test input from the door operator.

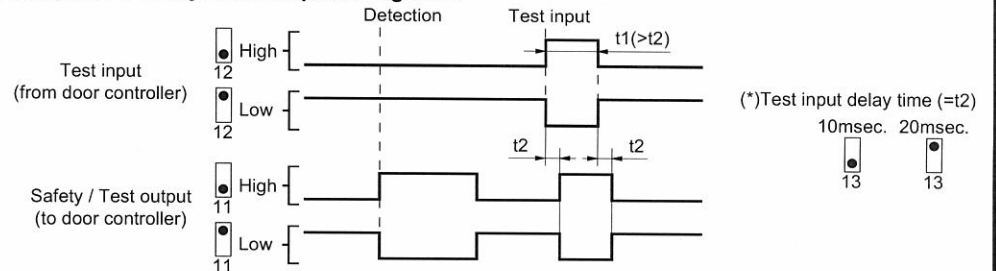


**NOTE** To comply with DIN 18650, set the self monitoring to "Enable".

### 3-7.Setting the test input, safety / test output and test input delay time

Set dipswitches 11 to 13 according to the door controller.

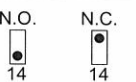
#### Test input and Safety / Test output timing chart



\*: The test input delay time is the time period between the test input and safety / test output.

### 3-8.Setting the activation output

Set dipswitch 14 to "N.O." (Normally Open) or "N.C." (Normally Closed).

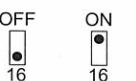


### 3-9.Installation mode

Set dipswitch 16 to ON when adjusting the 1st row close to the door.

When the setting is finished, set to OFF.

During the installation mode, only the 1st row remains, and the operation indicator glows Yellow.



**NOTE** If the function key is set back to the "Operation mode" while the installation mode is still ON, an error occurs.

## CHECKING

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

Entry	Power OFF	Outside of detection area	Entry into 3rd to 5th row	Entry into 2nd row	Entry into 1st row	Outside of detection area
Status	-	Stand-by	Motion detection active	Motion / Presence detection active		Stand-by
Operation indicator	None	Green	Orange	Red	Blinking Red	Green
Activation output	14 N.O.	—	—	—		
	14 N.C.	—	—	—		
Safety / Test output	11 High	OFF	ON	OFF		ON
	11 Low	OFF	OFF	ON		OFF

## 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 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 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	Operation indicator	Possible cause	Possible countermeasures
Door does not open when a person enters the detection area.	None	Wrong power supply voltage	Set to the stated voltage.
	Unstable	Wrong wiring or connection failure	Check the wires and connector.
		Wrong detection area positioning	Check <b>ADJUSTMENTS 1, 2 &amp; 3</b> .(*)
		Sensitivity is too low.	Set the sensitivity higher. (*)
		Short presence detection timer	Set the presence detection timer longer. (*)
Door opens when no one is in the detection area. (Ghosting)	Unstable	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.
		The detection area overlaps with that of another sensor.	Check <b>ADJUSTMENTS 3-3</b> .(*)
		Waterdrops on the detection window	Use the rain-cover (Separately available). Or install in a place keeping the waterdrops off.
		Detection area overlaps with door / header.	Adjust the detection area to "Deep" (Outside).
		Sensitivity is too high.	Set the sensitivity lower. (*)
	Proper	Others	Set the immunity to ON. (*)
		Sudden change in the detection area.	Check <b>ADJUSTMENTS 3-1 &amp; 3-2</b> . (*) If the problem still persists, hard-reset the sensor. (Turn the power OFF and ON again.)
		Wrong wiring or connection failure	Check the wires and connector.
		Self monitoring is set to "Disable".	Set dipswitch 10 to "Enable". (*)
Door remains open	Yellow	Wrong setting of dipswitches.	Check <b>ADJUSTMENTS 3-6, 7 &amp; 8</b> . (*)
		Installation mode is set to ON.	Set installation mode to OFF. (*)
	Blinking Blue	Wrong setting of function key	Set to the "Operation mode".
	Fast Green blinking	Sensitivity is too low.	Set the sensitivity higher. (*)
		Dirty detection window	Wipe the detection window with a damp cloth. (Do not use any cleaner or solvent.)
	Slow Green blinking	Sensor failure	Contact your installer or service engineer.
		Signal saturation (1st or 2nd row)	Remove highly reflecting objects from the detection area. Or lower the sensitivity. (*) Or change the area depth angle for 1st to 3rd rows.
	Red & Green blinking	The detection area overlaps with the door / header.	Adjust the detection area to "Deep" (Outside).
Door remains closed.	Proper	Wrong setting of dipswitch	1. Set the function key to the "Setting mode". 2. Change the dipswitch 16 setting (ON → OFF or OFF → ON → OFF). 3. Set the function key back to "Operation mode".
		Wrong wiring or connection failure	Check the wires and connector.
	Twice Green blinking	Life cycle notification	Contact your installer or service engineer.
Proper operation	Slow Green blinking	Signal saturation (3rd, 4th or 5th row)	Remove highly reflecting objects from the detection area. Or lower the sensitivity. (*) Or change the area depth angle.

\*: Before changing these settings, set the function key to the "Setting mode". When finished, set back to the "Operation mode".

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