









### Adjustments

**Detection window selection** 

According to the mouting height, select proper detection window.

8'2"(2.5m) to 16'5"(5.0m) : Standard window(default) 16'5"(5.0m) to 21'4"(6.5m) : High mount window

When changing window follow procedure below.

1. Remove the screws



[Standard window]



					[feet,ir	nch(mm)]	
	Window	Sta	ndard wind	low	High mount window		
	Mounting height	8'2" (2,500)	11'6" (3,500)	14'9" (4,500)	18'1" (5,500)	21'4" (6,500)	
F	А	6" (150)	8" (210)	11" (280)	1'1" (340)	1'4" (400)	
	В	1'10" (560)	2'7" (790)	3'4" (1010)	4'1" (1240)	4'10" (1470)	
	С	2'3" (680)	3'2" (960)	4'1" (1240)	4'11" (1510)	5'11" (1790)	
	D	4'5" (1340)	6'2" (1870)	7'11" (2410)	9'8" (2940)	11'5" (3480)	



: Emitting spots

: Emitting spots (Can be eliminated)

### [High mount window]



E	5'1" (1530)	(2150)	9'1" (2760)	9'2" (2790)	10'10" (3300)	
F	11'11" (3640)	16'9" (5100)	21'7" (6560)	23'9" (7230)	28'1" (8550)	
G	12'7" (3840)	17'8" (5380)	22'8" (6910)	25' (7620)	29'7" (9010)	
Z	6" (150)	9" (220)	11" (280)	1'1" (340)	1'4" (410)	

Values of the chart are based on the following depth angle adjustment settings; 1st and 2nd rows : +5° 3rd row : +30°



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 sensor may not be activated when the entering speed of the object or a person is slower than 50mm / sec. or faster than 1500mm / sec.

#### 2.Take the windows off.



3.Attach the windows.







Ch	Checking										
Che	Check the operation according to the chart below.										
	Entry			Power OFF	Outside of detection area	Entry into 3rd row	Entry into 2nd row	Entry into 1st row	Outside of detection area		
Status			-	Stand-by	Motion / Presence detection active		Stand-by				
	Image				•	•					
	Opera	ation indi	cator		None	Green	Ora	nge	Red	Green	
	2nd row output Activation Activation		•								
	Simultaneous output OFF S S S S S S S S S S S S S S S S S S	output 4 OFF	output	N.O. 1					~		
<sw1></sw1>			output     Safety	output Safety Safety	N.C. 2				Ŷ	~	
Dipswitches			output	N.O. 2							
Dips	Simultaneous output ON 3	Activation		N.C.							
		/ output	N.O. 1				<u> </u>				
			Safety	N.C. 2							
			output	N.O.							

# Inform building owner / operator of the following items

# / 🖳 WARNING

- 1. Do not wash the sensor with water.
- 2. Do not disassemble, rebuild or repair the sensor yourself, otherwise electric shock may occur.

# 

1. Do not paint the detection window.

### NOTE

- 1. Always keep the detection window clean. If dirty, wipe the window with a damp cloth.(Do not use any cleaner / solvent.)
- 2. When the operation indicator is twice geen blinking, contact your installer or service engineer.
- 3. Always contact your installer or service engineer when changing the settings.
- 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.)
- 5. Do not place any objects that move or emit light in the detection area. (e.g. Plant, illumination, etc.)

Alarm display

Refer to the Troubleshooting below when the following appears.

Status	Life cycle notification	Signal Saturation	Sensor failure
Operation indicator	Twice green blinking	Slow green blinking	Fast green blinking

NOTE LED will be turned off about 500ms when the sensor Test output signal works well.

Door operation	Operation indicator	Possible cause		Possible countermeasures		
Door does not	None	Wrong power supply voltage.		Set to the stated voltage.		
open when a		Wrong wiring or connection failure.		Check the wires and connector.		
person enters	Unstable	Wrong detection area positioning.		Check Detection area & Adjustments		
the detection area.				Set the sensitivity higher.		
alea.		Short presence 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.)		
	Green			Check Adjustments 3-1.		
		Both On delay and door cancel function are "ON".		Set either function to "OFF"		
	Orange			Check the wires and connector.		
Door opens when no one		The detection area overlaps with th another sensor.	nat of	Check Adjustments 3-2.		
is in the detection area. (Ghosting)	Unstable	Water drops on the detection window.		Use the rain-cover (Separately available). Or install the sensor in a place keeping the waterdrops off.		
(Ghosting)		The detection area overlaps with the door / header.		Adjust the detection area to "Deep" (Outside).		
		Sensitivity is too high.		Set the sensitivity lower.		
		Wrong (Safety/Activation) output setting.		Check Adjustments 3-1		
Door remains open	Proper	Presence timer is " $\infty$ " and sudden change in the detection area happened.		Check <b>Adjustments 3-4 &amp; 3-6</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.		
		The automatic infinite presence detection is "ON" and the objects or people enter more than two spot areas.		Remove the objects. Or check <b>Adjustments 3-6</b> .		
	Green	Wrong (Safety/Activation) output setting.		Check Adjustments 3-1.		
Proper	Twice green blinking	Output relay(s) is reaching the end of its life cycle.		Replace the sensor.		
	Slow green	Signal saturation		Remove highly reflecting objects from the detection area. Change the area angle.		
	blinking	The detection area overlaps with the door / header.		Adjust the detection area to "Deep" (Outside).		
	Fast	Sensitivity is too low. Dirty detection window. Sensor failure		Set the sensitivity higher.		
	green blinking			Wipe the detection window with a damp cloth. (Do not use any cleaner or solvent.)		
				Contact your installer or service engineer.		
Manufacturer		F	Europea	an Subsidiary		
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## **3-7.Setting the Door cancel** (SW3 Dipswitch 5)

When dipswitch 5 is "ON" the sensor is less influenced by the door movement, i.e. caused by wind. If the sensor does not detect for 10sec., the 1st row will be disabled when door cancel function is"ON".

(The 1st row will be enabled again when there is detection at other rows.)

 WARNING
 With this fuction, 1st row is disabled if there are no ditection for 10sec.

 Risk of getting caught.
 If a person or vehicle enter the first row without any detection in other rows

 (e.g. enter from the other side), it might cause an accident.
 Item (a person or vehicle enter the first row without any detection in other rows)

### 3-8.Setting the On delay 2sec. (SW3 Dipswitch 6)

To avoid unnecessary openings due to passing objects/persons set dipswitch 6 "ON". The sensor only activates when a person or object stays in the detection area for more then 2 seconds.

OFF

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4

OFF

5

4

ON

•

5

ON

•

6

WARNING Risk of getting caught.

Please do not set On delay 2sec. to "ON" when door cancel function is "ON". If both are "ON", the sensor does not output signal unless it detects a person or object more than 2sec and 1st row is inactive. If the person or object enter the fist row, the sensor does not detect and door never opens.

### 3-9.Setting the Sensitivity (SW3 Dipswithch 7 and 8)

Recommended sensitivity setting in accordance with the following mounting height.

L	(Low)	: 8'2"(2.5m) to 11'6"(3.5m)
Μ	(Middle)	: 9'10"(3.0m) to 14'9"(4.5m)
Н	(High)	: 13'2"(4.0m) to 18'1"(5.5m)
S-High	(Super high)	: 16'5"(5.0m) to 21'4"(6.5m)



NOTE Adjust the sensitivity to suit each installation site.

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