SSR-3 CE
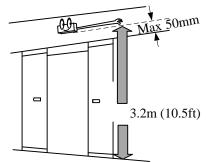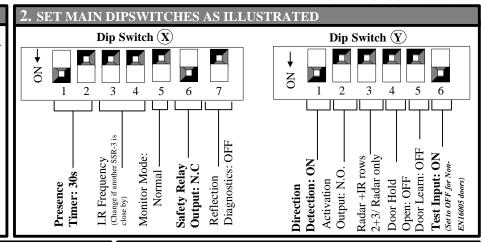# Quick Installation Guide
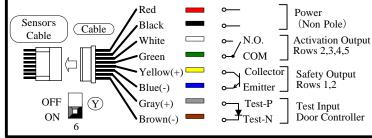
HOTRON
INSPIRING CONFIDENCE

1. MOUNT THE SENSOR

Using the mounting template supplied mount the sensor within 50mm of the bottom of the door controller cover

Max 50mm

3.2m (10.5ft)

2. SET MAIN DIPSWITCHES AS ILLUSTRATED

Dip Switch (X)

ON 1 2 3 4 5 6 7

- **Presence Timer: 30s**
- I.R Frequency (Change if another SSR-3 is close by)
- Monitor Mode: Normal
- **Safety Relay Output: N.C**
- Reflection Diagnostics: OFF

Dip Switch (Y)

ON 1 2 3 4 5 6

- **Direction Detection: ON**
- Activation Output: N.O.
- Radar +IR rows 2+3/ Radar only
- Door Hold Open: OFF
- Door Learn: OFF
- **Test Input: ON** (*Set to OFF for Non-EN16005 doors*)

3. CONNECT TO THE DOOR CONTROLLER

Note: For EN16005 door controllers set Y6 to "ON" and connect the Gray & Brown wires to the door controller. If the door controller does not have a "TEST INPUT" set Y6 to "OFF" and do not connect the Gray & Brown wires

Sensors Cable — Cable

Wire		Connection
Red	(red)	Power (Non Pole)
Black	(black)	
White	(white)	N.O. — Activation Output Rows 2,3,4,5
Green	(green)	COM
Yellow(+)	(yellow)	Collector — Safety Output Rows 1,2
Blue(-)	(blue)	Emitter
Gray(+)	(gray)	Test-P — Test Input Door Controller
Brown(-)	(brown)	Test-N

OFF / ON (Y) 6

4. LED INDICATORS

Green	Standby (Ready to Detect)
Green blinking	Doorway Learning (When dip switch Y5 is ON)
Blue	RADAR Detecting
Red	Infrared Detecting Or RADAR and Infrared Detecting at the same time
Orange	Sensor is detecting the moving door
Orange blinking (Fast)	Change of dip switch settings
Orange blinking (Slow)	Door Hold is turned ON (Y4)
Green/Red blinking (Fast)	Internal Sensor Error
Green/Red blinking (Slow)	Reflected infrared signal from the floor is very weak

5. SET SAFETY DETECTION AREA

Far / Near Adjustment screw

【Far】 [4 degree] setting
1.0[m] 0.5 0
1.0
Door
2.0 2.2
3.0 3.2

【Near】 [-8 degree] setting
1.0 [m] 0.5 0
1.0
Door
2.0 2.2
3.0 3.2

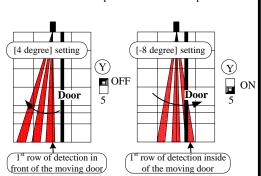**Note:** Adjust the depth adjustment lever arm so that the detection area is directly in front of the moving door leaf

6. SET DESIRED DOOR OPENING DETECTION AREA

RADAR Detection Area Adjustment

RADAR antenna angle adjustment

Far / Near

Installation height "2.2m" with Sensitivity set to "High".
2.0 [m] 1.0 0 1.0 2.0
1.0
2.0
3.0
15 deg / 30 deg / 45 deg

Installation height "2.2m" with Sensitivity set to "Low".
2.0 [m] 1.0 0 1.0 2.0
1.0
2.0
3.0

RADAR sensitivity adjustment
H / L

Infrared Detection Area Width Adjustment

Separation

Put on

2.0 (m) 1.0 0 1.0 2.0
1.0
2.0 2.2
3.0 3.2
Narrow / Wide

7. DOOR LEARN

Turning Door Learn **ON (Y5)**, allows the 1st row of detection to be focused inside the door close area without detecting door movement.
When Door Learn is turned on, the red LED will blink once, followed by a green blinking LED, which will turn solid green once the door learn process has been completed.

[4 degree] setting
Door
(Y) 5 OFF
1st row of detection in front of the moving door

[-8 degree] setting
Door
(Y) 5 ON
1st row of detection inside of the moving door

8. OTHER USEFUL DIPSWITCH SETTINGS

Setting			
Output Radar (Dip Switch: **Y3**)	☆ OFF (3)	RADAR + IR rows 2+3	ON (3) — RADAR
Snow Mode (Dip Switch: **X5**)	☆ Normal (5)		Snow (5)
Adjust sensor frequency settings to prevent cross interference between sensors in close proximity (Dip Switch **X3,4**)	☆A (3 4)	B (3 4)	C (3 4) D (3 4)
Turn ON/OFF Uni-directional detection (Dip Switch: **Y1**)	OFF (1) ✓✓		☆ ON (1) ✓✗