15. TROUBLESHOOT	TING		
Problem	LED Status	Possible Cause	Solution
Door does not open when a person enters the detection area	OFF	Sensor Connector not connected correctly	Tighten or reconnect the connector.
		Incorrect power supply voltage	Apply proper voltage to the sensor. (AC: 12-24V, DC: 12-30V)
		Incorrect sensor wiring	Double check sensor wiring
Door opens and closes for no apparent reason (Ghosting)	Door Opens RED or BLUE Door Closes GREEN	Object moving in the detection area	Remove the moving object from detection area.
		Sensitivity too high for the installation environment	Reduce the sensor sensitivity setting
		Dust, frost or water droplet on the sensor lens	Wipe the sensor lens clean and install a weather cover if necessary
		Detection area overlaps with that of another sensor	Ensure different frequency setting for each sensor, and adjust to overlap the radar area using the angle and volume.
		Detection of falling snow, insects, leaves etc	Turn monitor mode Dip Switch & 8 to "snow"
When Door opens or closes, LED ORANGE	ORANGE	Detection row "ROW1" ("ROW2" when "Doorway Learn" is turned ON) is focused too close to the door.	Adjust detection depth for Inner 3 rows away from the door.
Door opens and remains in the open position	RED	Detection area changed, while ∞ infinity presence timer setting is in use	Re-power the sensor or change the presence timer settings to 30 or 60 sec
		Incorrect sensor wiring	Double check sensor wiring
		Reflected signal saturation	Remove highly reflective objects from the detection area, or lower the sensor sensitivity setting
	BLUE	Moving objects in the radar area	Eliminate moving objects
	GREEN/RED FAST FLASH	Internal sensor error	Replace the sensor
	GREEN/RED SLOW FLASH	Reflection of the transmitted infrared signal from the floor is too low	Increase sensor sensitivity or change the "Reflection Diagnostics" Dip Switch 7 from "Normal" to "Low Ref"
	ORANGE blinking (Slow)	Door Hold (Dip Switch (Y) 6 set to Open)	Turn OFF the "Door Hold" Dip Switch (6 to Auto

EUD-0004



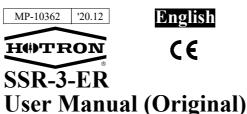
- < Disclaimer > The manufacturer cannot be held responsible for below.
- 1. Misinterpretation of the installation instructions, miss connection, negligence, sensor modification and inappropriate installation.
- 2. Damage caused by inappropriate transportation.
- 3. Accidents or damages caused by fire, pollution, abnormal voltage, earthquake, thunderstorm, wind, floods and other acts of providence.
- 4. Losses of business profits, business interruptions, business information losses and other financial losses caused by using the sensor or malfunction of the sensor.
- 5. Amount of compensation beyond selling price in all cases.

HOTRON CO.,LTD.

Manufacturer HOTRON CO.,LTD. 1-11-26 Hyakunin-Cho, Shinjuku-Ku, Tokyo, Japan

Phone: +81-(0)3-5330-9221 Fax: +81-(0)3-5330-9222 URL: http://www.hotron.com SALES Europe
Hotron Ireland Ltd.
26 Dublin Street (2nd Floor), Carlow, Ireland

Phone: +353-(0)59-9140345 Fax: +353-(0)59-9140543 URL: http://www.hotron.com MP-10362 '20.12



Combined motion and presence detection sensor for the activation and safety of automatic doors including emergency exits.

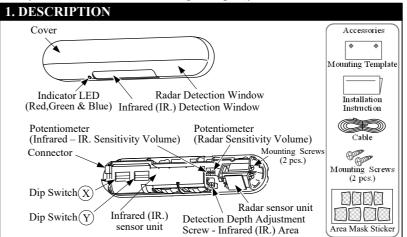
COMPLIED STANDARDS

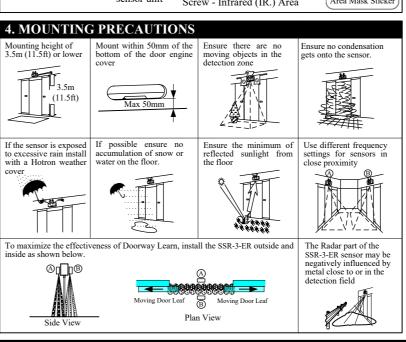
EN 12978:2003 +A1:2009

EN 16005:2012 +AC:2015

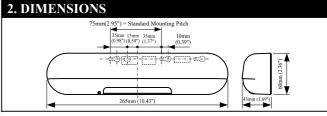
DIN 18650-1:2010 EN ISO 13849-1:2015

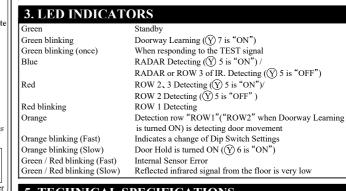
EC type examination

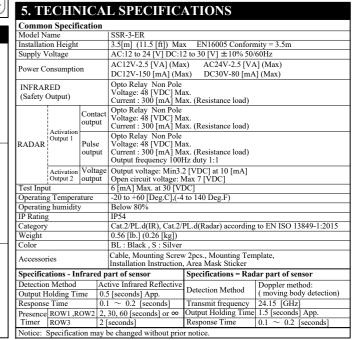


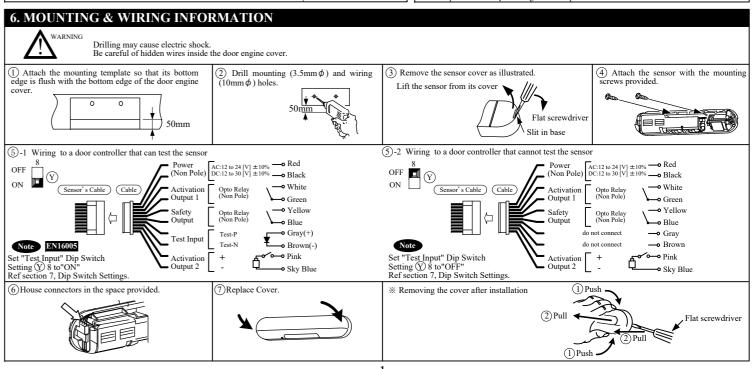


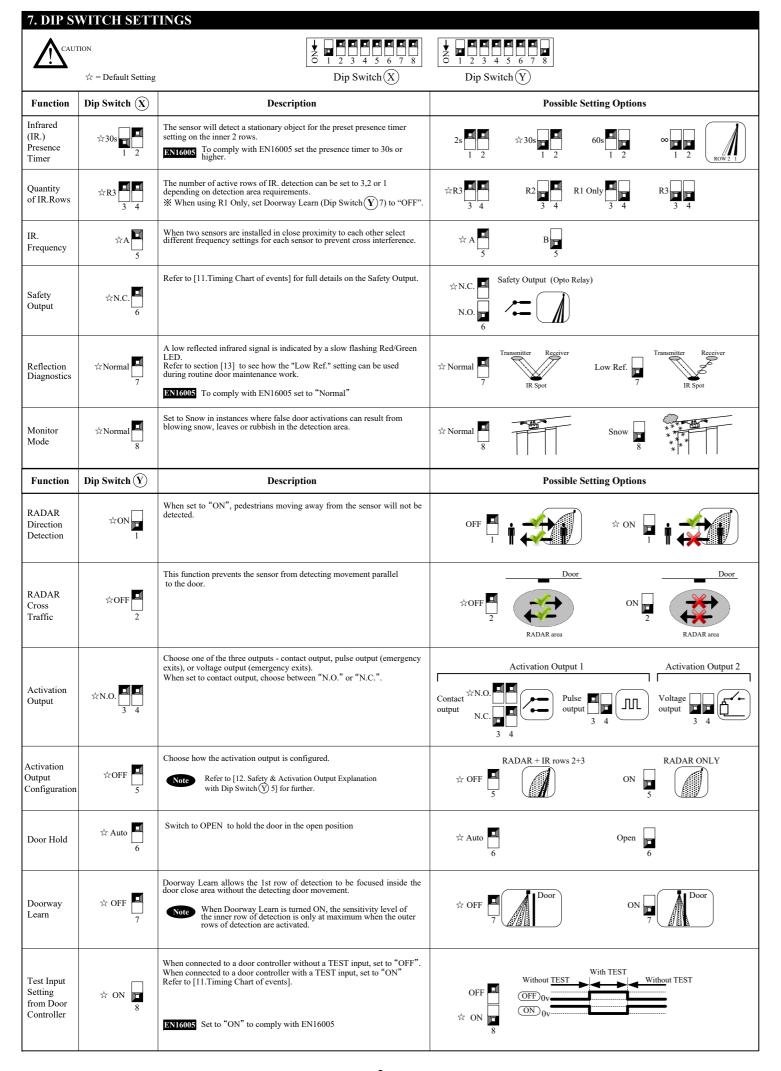


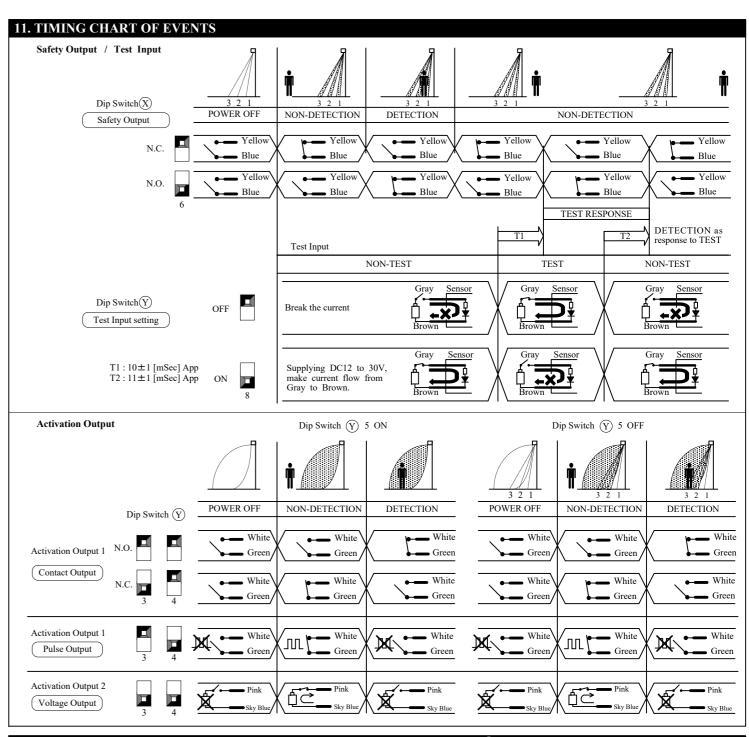






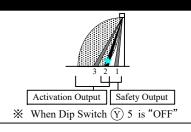






12. SAFETY & ACTIVATION OUTPUT EXPLANATION WITH DIP SWITCH (Y) 5

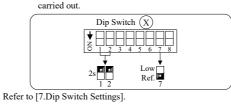
Output	Dip Switch (Y) 5 ON	Dip Switch (Y) 5 OFF
Safety Output	ROW1, ROW2, ROW3	ROW1, ROW2
Activation Output	RADAR	RADAR+ROW2, ROW3



13. DOOR MAINTENANCE WORK

When carrying out door maintenance work with power applied to the sensor on door controllers that are wired to "test" the sensor ensure to set the Dip Switches as below.

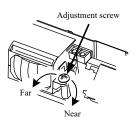
Note Remember to return the Dip Switch Settings to their original state once door maintenance work has been carried out. Dip Switch (X)

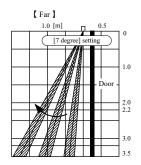


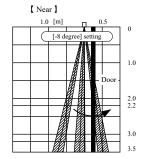
14. SELF DIAGNOSTICS ERRORS Technical problems with the SSR-3-ER sensor are indicated by a flashing Green/Red LED. The frequency of flashing indicates the type of problem as explained below. LED Cause Frequency Green * * * * Defective sensor, please replace Fast Red * * * * Confirm that the sensitivity potentiometer is set to maximum and re-power the sensor. Slow Red *

8.DETECTION AREA WIDTH AND DEPTH ADJUSTMENT

Detection Area Depth Adjustment: IR. (Inner 3 Rows)

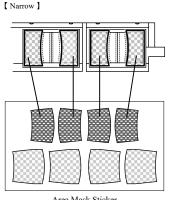




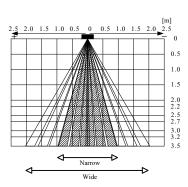


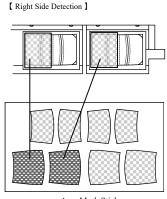
EN16005 Verify that the detection area position conforms to EN16005 by using the Hotron Beam Finder or Test Box

Detection Area Width Adjustment: IR. (Inner 3 Rows)

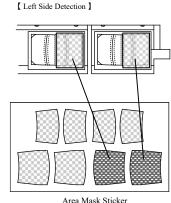


Area Mask Sticker

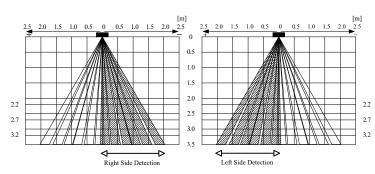




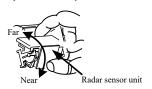
Area Mask Sticker



Area Mask Sticker

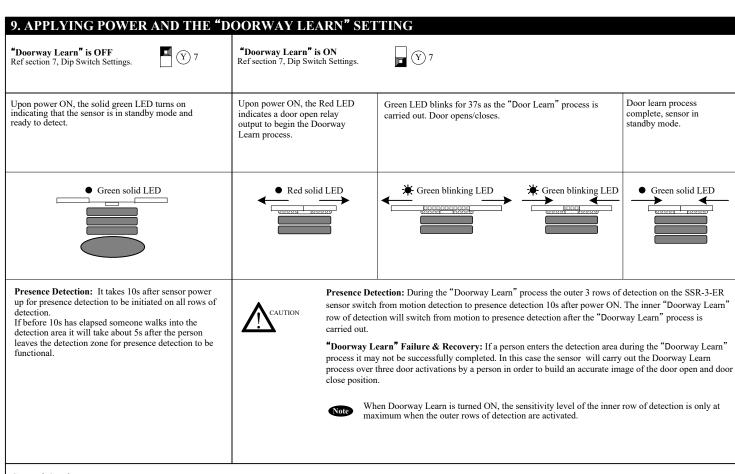


Detection Area Depth Adjustment: RADAR sensor detection area





The above illustrated detection areas represent the actual position of the infrared and radar beams. The actual detection area observed will vary depending on the sensor installation environment, object been detected and sensor settings. Please ensure that the detection area is set to conform to EN16005



General Caution:

When carrying out the following work, turn the sensor off and on again.

- $\ensuremath{\cancel{\times}}$ When the floor condition is changed by placing a mat on the floor etc.
- * When the detection area pattern or sensor sensitivity is adjusted.

10. VERIFICATION OF OPERATION

After installation is completed "walk test" the sensor detection area. If the detection area is not as expected adjust the detection area as referred to in section 8.

If the detection area is still not as expected then the sensor sensitivity can be increased by turning the potentiometer clockwise. When the sensor detects even though there is nothing in the detection area the sensor sensitivity can be decreased by turning the potentiometer in the anti-clockwise direction.

If the sensor is false activated by the snow or rain, decrease the IR. Sensitivity. It should be noted that sensitivity to detecting pedestrians may also be reduced.

CAUTION

Adjust the sensitivity to be appropriate to the installation environment.

IR. Sensitivity RADAR Sensitivity

