

Safety Sensor for Swing Doors SSS-5

SSS-5M1

COMPLIED STANDARDS EN 12978:2003 +A1:2009 EN16005:2012 +AC:2015 DIN18650-1:2010 EN ISO 13849-1:2015 EC type examination 44 205 13738001

User Manual (Original)

We would like to thank you for purchasing this product. Before using, please read the following instructions carefully

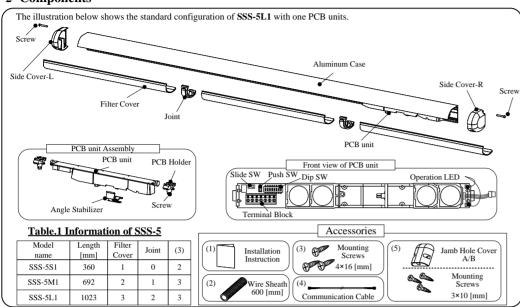


1 General Description / Features

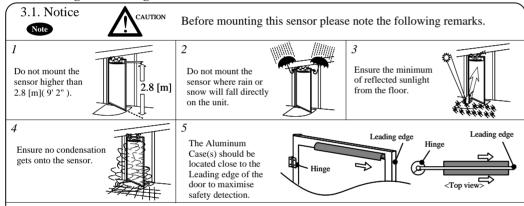
The SSS-5 is a microprocessor controlled active infrared presence detector for swing doors.

- 6 detection spots per PCB unit provide a wide detection area.

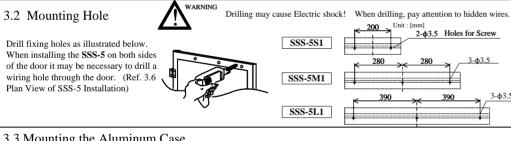
- The detection distance to the floor is set automatically by pressing a Push Switch. - The detection range can be adjusted manually, using dip switches in increments of 50mm
- The relay output can be changed from NO to NC using a dip switch.
- Self diagnostic and monitoring functions are implemented.



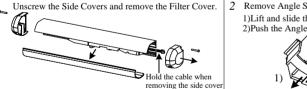
3 Mounting and Wiring Information



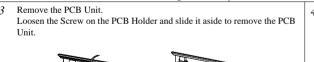
6 Be careful not to drop the sensor, during transportation and installation. It may cause the sensor to break.

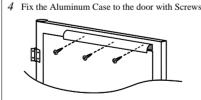






2 Remove Angle Stabilizer. 1)Lift and slide the Angle Stabilizer to the side as indicated.



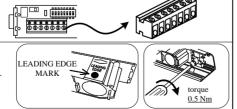


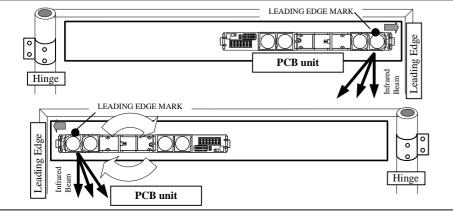
3.4 Replacing the PCB unit(s)

When replacing the PCB unit it is very important that the side with "LEADING EDGE" marked on it is inserted so that it is closest to the leading edge of the door. This will ensure maximum pedestrian safety at the door edge.

Remove the Terminal Block from the PCB unit.

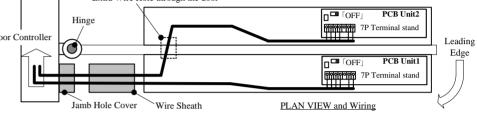
2 Insert the PCB unit into the Aluminum Case, making sure that the side marked "LEADING EDGE" is closest to the leading edge of the door. Attach the Angle Stabilizer and tighten the screws on the PCB Holders.



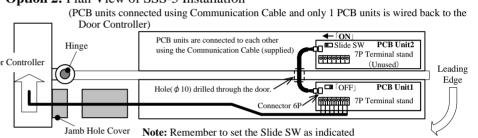


3.5 Wiring to the door controller Install the Jamb Hole Cover and Wire Sheath when wiring to the door controller Drill following holes Clamp the Wire Sheath between the Jamb Hole Cover A/B ф10 Wiring Hole the controller Jamb Hole Cover B 3 - φ2.6 Screw Holes Unit: [mm] Wire Sheath Connect the wires to the Power supply (AC/DC 12~24[V]) door controller using the Terminal Block Relay Output (Common) Relay Output1 Wire size Relay Output 2(Another PCB Unit Output) 0.15 to 3.5 [mm²] TEST Input (-) TEST Input (+)

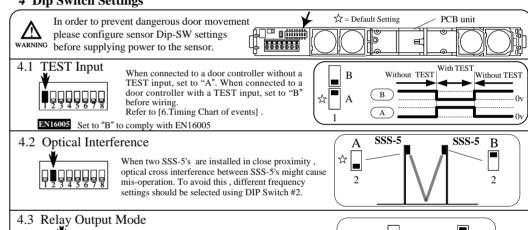


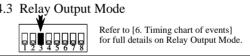


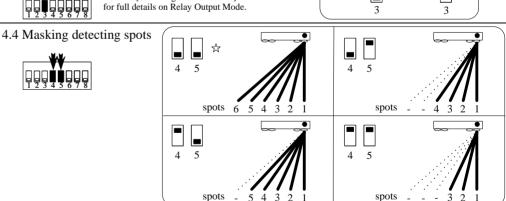
3.6.2 **Option 2:** Plan View of SSS-5 Installation

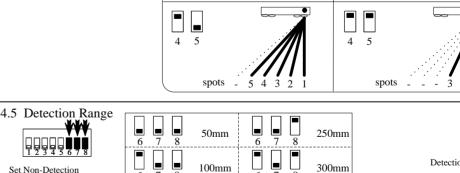


4 Dip Switch Settings



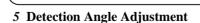






150mm

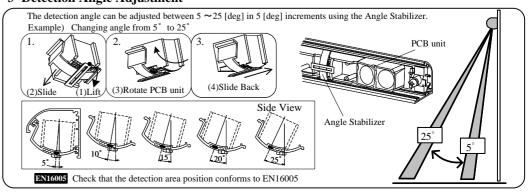
200mm



distance (A)

Check that the detection

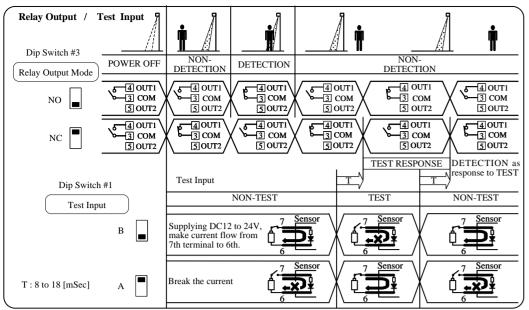
range conforms to EN16005



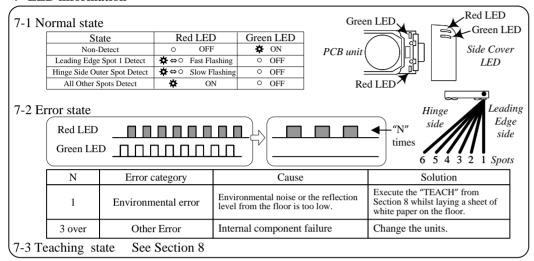
400mm

Non-Detection (A)

6 Timing chart of events



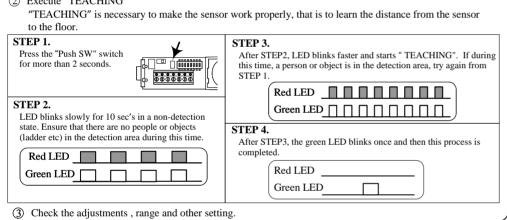
7 LED information



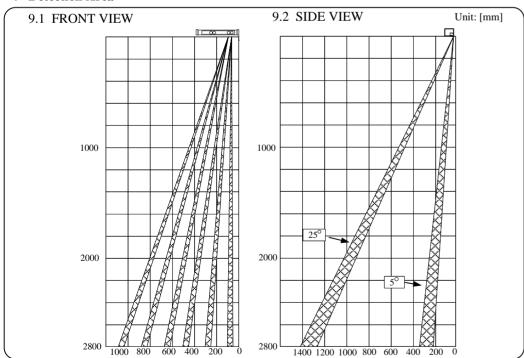
8 Teaching

Conduct the following steps with the Filter Cover off.

- Check the wiring connection and supply power.
- Execute "TEACHING"



9 Detection Area



10 Detection Range Check without Filter Cover

Check the detection range without the Filter Cover attached Put a test object in the detection area to check the detection patterns and other Dip Switch settings. Tests according to local standards should be carried out.

After this check, Turn power off.

EN16005 Check that the detection area conforms to EN16005

When the test is completed, go to Section 11 to install the Filter Cover and Side Cover.

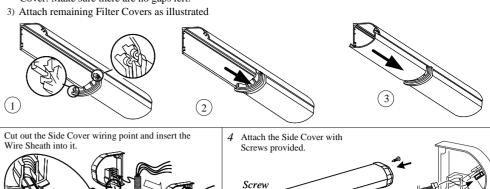
If an error occurs, re-check the settings referring to Section 3.

11 Replacing the Filter Cover and Side Cover Installing the Filter Cover: 1) First fit the upper side of the Filter Cover into the full length of the Aluminum Case. Be careful not to obstruct 2) Slightly bend the Filter Cover at one end to latch the optical components it onto the bottom lip of the Aluminum Case. 3) Slide your hand along the bottom lip to lock the Filter Cover onto the Aluminum Case all along the length of the Aluminum



2 Attaching the Joint

- 1) Snap the Joint into the Aluminum Case.
- 2) Slide the Joint so that it fits snugly into the Filter Cover. Make sure there are no gaps left.



12 Final Detection Range Check

After the Filter Cover is fitted, confirm that the detection range is as expected and conforms with local regulations.

EN16005 Check that the detection area conforms to EN16005

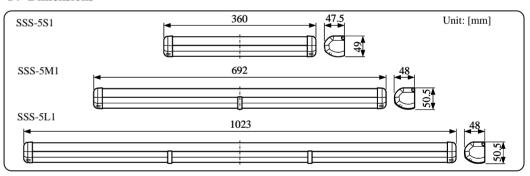


e Do not pinch cable between the side cover

13 Technical Data

MODEL	Safety	Sensor for Swing Doors	SSS-5
TECHNOLOGY	COMPLETE STATIONARY DETECTION with PSD DISTANCE MEASUREMENT		
POWER SUPPLY	AC/DC 12~24[V] ±10%	BEAM ANGLE ADJUSTMENT	5, 10, 15, 20, 25 [degrees]
	95 [mA] @ DC12[V]	RESPONSE SPEED	LESS THAN 100 [mSec]
CURRENT CONSUMPTION	55 [mA] @ DC24[V] 1.7 [VA] @ AC12 [V] 2.3 [VA] @ AC24[V] OPTO RELAY 1A (NON POLE)	DIP SW FUNCTIONS	TEST INPUT : 1 [BIT] OPTICAL INTERFERENCE : 1 [BIT] RELAY OUTPUT MODE :1 [BIT] MASKING DETECTING SPOTS:2[BIT] DETECTION RANGE:3[BIT]
TEST INPUT	DC 50[V] 0.1[A] (RESISTANCE LOAD) 6 [mA] Max. at 24 [VDC]	OPERATING TEMPERATURE	-20 ~ +60 [° C]
MOUNTING HEIGHT	2.8 [m] Max	WEIGHT	SSS-5S1: 380[g] APPROX. SSS-5M1: 570[g] APPROX. SSS-5L1: 770[g] APPROX.
DETECTION RANGE	0 - 2.75 [m] Max		

14 Dimensions



15 EU DECLARATION OF CONFORMITY

Description of Product:

SSS-5 Safety Sensor for Swing Doors

Complete stationary detection with PSD distance measurement

Directives Fulfilled:

DIRECTIVE 2006/42/EC Machinery Directive

DIN 18650-1:2010 Powered pedestrian doors Part 1: Product requirements. Chapter 5.7.4 EN12978:2003 +A1:2009 Industrial, commercial and garage doors and gates - safety devices for power operated doors

and gates - Requirements and test methods.

EN ISO 13849-1:2015 Safety of machinery - Safety-related parts of control systems.

EN 16005:2012 +AC:2015 Power operated pedestrian doorsets - Safety in use - Requirements and test methods. Chapter 4.6.8 EC type examination No. 44 205 13738001

Above EC Type Directives Certified by: TÜV NORD CERT GmbH, Division TechnologyAm TÜV1 Essen 45307 Germa Identification No: 0044	Harmonized Standards Used: EN ISO 13849-1:2015	Other Technical Standards Used: DIN 18650-1:2010 EN16005:2012 +AC:2015	
Compiler of Technical File (EC Community) David Morgan / Hotron Ireland Ltd. 26 Dublin Street, Carlow, Ireland Ph: +353 5991 40345 Fax: +353 5991 40543	Location of Declaration (Manufacture)	Declaration made by	Date
	Honda Electron Co., Ltd.	Hitoshi Takagi	22
	1-23-19 Asahimachi,Machida-shi,	Director	April
	Tokyo, Japan	(Quality Assurance)	2022

<Disclaimer> The manufacturer cannot be held responsible for the below.

- 1. Misinterpretation of the installation instructions, miss connection, negligence, sensor modification and inappropriate
- 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.



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