

User Manual (Original)

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

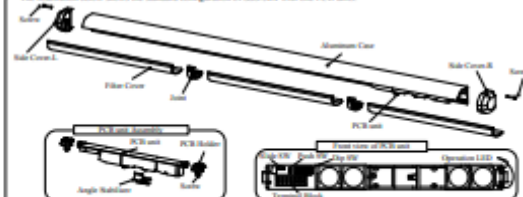
- Disregarding this symbol may result in serious injury or death.
- Disregarding this symbol may result in injury or damage to equipment.
- Special attention is required when this symbol is shown.
- Setting required to conform with EN16005.

1 General Description / Features

- The SSS-5 is a microprocessor controlled active infrared presence detector for swing doors.
- 4 detection spots per PCB unit provide a wide detection area.
- The detection distance to the door is set automatically by providing 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 dip switch.
- Self diagnostic and monitoring functions are implemented.

2 Components

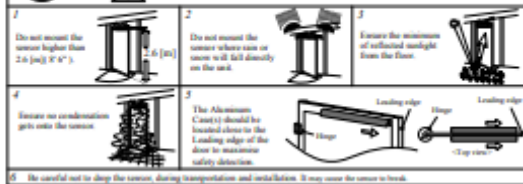
The illustration below shows the standard configuration of SSS-5L1 with one PCB unit.



Model	Power Supply	Current	Weight	Height	Width
SSS-5L1	AC12V	50mA	100g	25mm	100mm
SSS-5M1	AC12V	50mA	100g	25mm	100mm
SSS-5L1	AC12V	50mA	100g	25mm	100mm

3 Mounting and Wiring Information

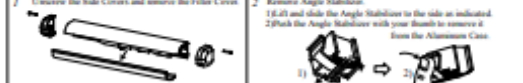
- 3.1. Notice**
Before mounting this sensor please note the following remarks.



- 3.2. Mounting Hole**
Drilling may cause fibers should. When drilling, pay attention to hollow wires.



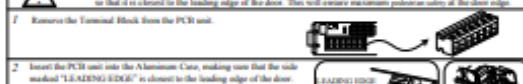
- 3.3. Mounting the Aluminum Case**
1. Connect the Side Cover and remove the Filter Cover.
2. Reverse Angle Stabilizer. TELE and slide the Angle Stabilizer to the side as indicated. 2) Push the Angle Stabilizer with your thumb to remove it from the Aluminum Case.



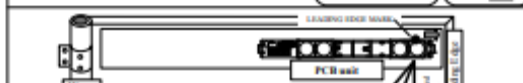
- 3.4. Replacing the PCB unit(s)**
When replacing the PCB unit it is very important that the side with "LEADING EDGE" marked on it is inserted so that it is closest to the leading edge of the door. This will ensure maximum protection rates at the leading edge.



- 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 Holder.

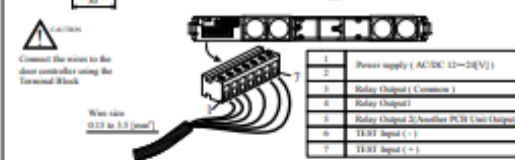
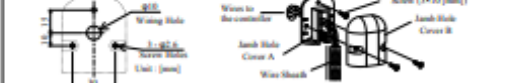


- Insert the PCB unit into the Aluminum Case, making sure that the side marked "LEADING EDGE" is closest to the leading edge of the door. Attach the Angle Stabilizer and tighten the screws on the PCB Holder.



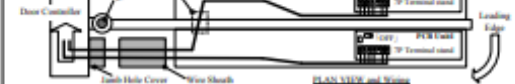
3.5 Wiring to the door controller

Install the Jamb Hole Cover and Wire Sheath when wiring to the door controller. Drill following holes.

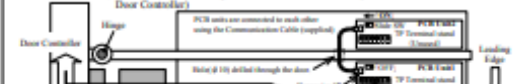


- Power supply (+ ACDC 12~24[V])
- Relay Output (+ Common 1)
- Relay Output (-)
- Relay Output 2 (+/Active PCB Unit Output)
- TEST Input (+)
- TEST Input (-)
- TEST Input (-)

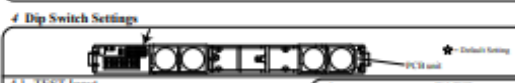
3.6.1 Option 1: Plan View of SSS-5 Installation



3.6.2 Option 2: Plan View of SSS-5 Installation



4 Dip Switch Settings



- 4.1. TEST Input**
When connected to a door controller without a TEST input, set to "A". When connected to a door controller with a TEST input, set to "B".

- 4.2. Optical Interference**
When two SSS-5's are installed in close proximity, optical sensor interference between SSS-5's might cause no operation. To avoid this, different frequency settings should be selected using DIP Switch 02.

- 4.3. Relay Output Mode**
Refer to [6. Timing chart of events] for full details on Relay Output Mode.

- 4.4. Masking detecting spots**
When two SSS-5's are installed in close proximity, optical sensor interference between SSS-5's might cause no operation. To avoid this, different frequency settings should be selected using DIP Switch 02.

- 4.5. Detection Range**
Set New Operation distance. Check that the detection range conforms to EN16005.

- 4.6. Detection Angle Adjustment**
The detection angle can be adjusted between 5° ~ 25 [deg] in 5 [deg] increments using the Angle Stabilizer.

- 4.7. Replacing the Filter Cover and Side Cover**
1. First fit the upper side of the Filter Cover into the full length of the Aluminum Case.
2. Slightly bend the Filter Cover at one end and to lock it into the bottom lip of the Aluminum Case.
3. Slide your hand along the bottom lip to lock the Filter Cover into the Aluminum Case all along the length of the Aluminum Case.

- 4.8. Final Detection Range Check**
After the Filter Cover is fixed, confirm that the detection range is as expected and conforms with local regulations.

- 4.9. Technical Data**
MODEL: COMPLETE STATIONARY DETECTION WITH PSD DISTANCE MEASUREMENT

- 4.10. Dimensions**
SSS-5L1: 360mm length, 25mm height, 100mm width.

- 4.11. EC Declaration of Conformity**
Description of Product: SSS-5 Safety Sensor for Swing Doors. Complete stationary detection with PSD distance measurement.

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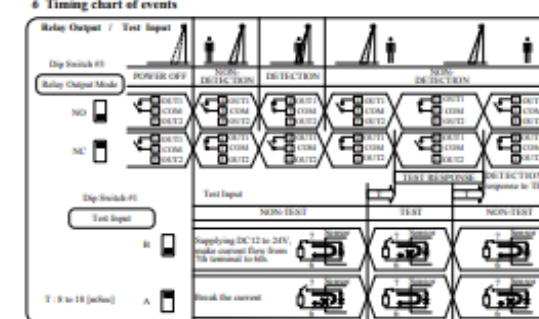
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6 Timing chart of events



- 7 LED Information**
7-1 Normal state: Green LED on, Red LED off.

- 7-2 Error state**
Red LED on, Green LED off.

- 7-3 Teaching state**
See Section 8.

- 8 Teaching**
Conduct the following steps with the Filter Cover off. Check the wiring connection and supply power. Execute "TEACHING".

- 9 Detection Area**
9.1 FRONT VIEW, 9.2 SIDE VIEW. Shows the detection area for different detection ranges.

- 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 pattern and other Dip Switch settings.

- 11 Replacing the Filter Cover and Side Cover**
1. First fit the upper side of the Filter Cover into the full length of the Aluminum Case.

- 12 Final Detection Range Check**
After the Filter Cover is fixed, confirm that the detection range is as expected and conforms with local regulations.

- 13 Technical Data**
MODEL: COMPLETE STATIONARY DETECTION WITH PSD DISTANCE MEASUREMENT

- 14 Dimensions**
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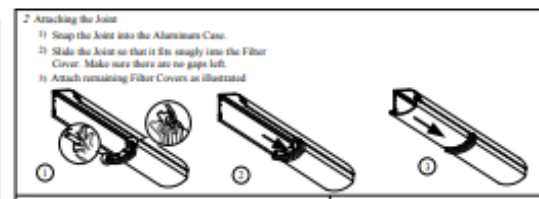
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- 37. Declaration of Conformity**
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2 Attaching the Joint



7 Cut out the Side Cover wiring point and insert the Wire Sheath into it



4 Attach the Side Cover with Screws provided



12 Final Detection Range Check

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

- Check that the detection area conforms to EN16005.

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