

# FIREFIGHTER SAFETY SWITCH

## Instructions for Installation and Operation

This manual is designed for Suntree Firefighter Safety Switch Installers, including professional technicians and end users. This document includes precautions, installing procedures, and system connection operations, setting up firefighter safety switches. Please read the manual before installation.

### **Attention:**

1. Please comply with local regulations and international standards.
2. Do not exceed the maximum voltage and current standards identified in the datasheet
3. The wiring schematics of the Firefighter Safety Switch can be found at the end of this manual.
4. Firefighter Safety Switch need be installed near the panel. When fire occurs, Firefighter Safety Switch can resulting in a power cut around the plant, by disconnecting the AC power.
5. Should not be installed in direct sunlight, and also can't be installed in continuous contact with water.


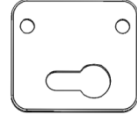

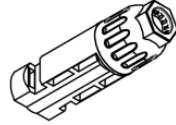
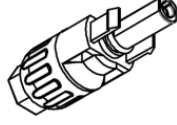
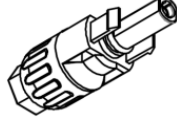
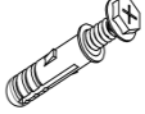
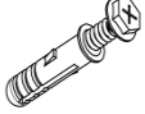
### **Function:**

When the Firefighter Safety Switch works, AC power supply is needed.

When AC power turn on, the control board drive motor, motor drive switch into the ON state. When the product remains in the normal state, the AC power keep ON all the time and the switch is kept in the ON state all the time.

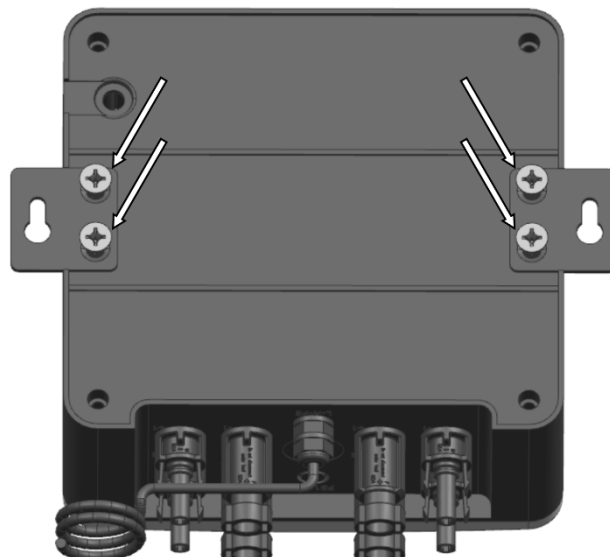
When AC power turn off, the control board detects the power off, and with the power in the capacitor on the control board, drive the motor, the motor drive switch into OFF state. The switch will also automatically switch to OFF when the temperature is higher than 70degrees Celsius.

### Accessories:

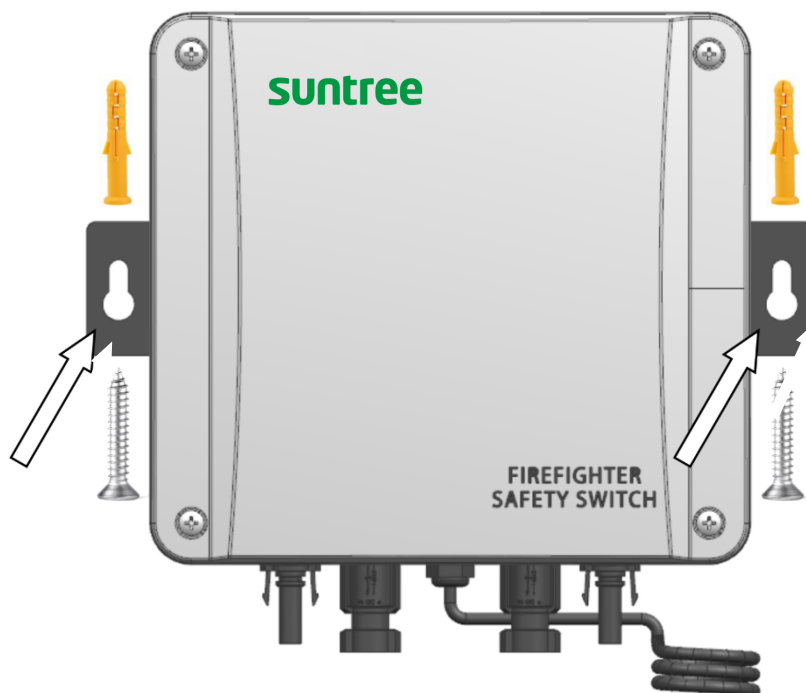
Name	Screws M5*8	Right Exterior Brackets	Left Exterior Brackets	Male MC4		Female MC4		Wall Screws M5*40
				2P	4P	2P	4P	
Qty	4	1	1	2	4	2	4	2
Picture								

### Location:

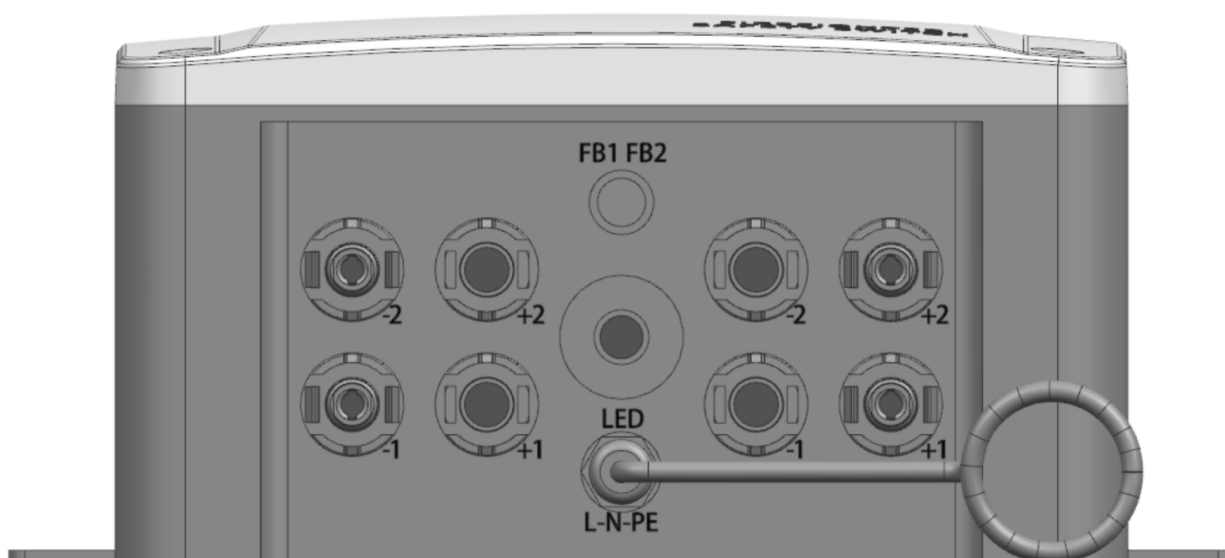
Step 1: Assemble the two brackets on the Enclosure.



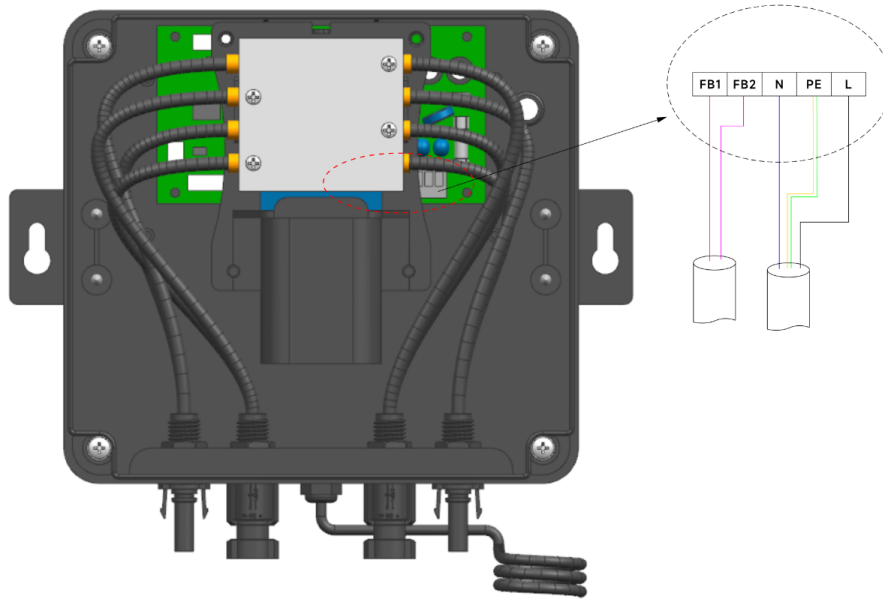
Step 2: Fix the Firefighter Safety Switch on the wall or the solar bracket.



Step 3: Connect the DC cable.



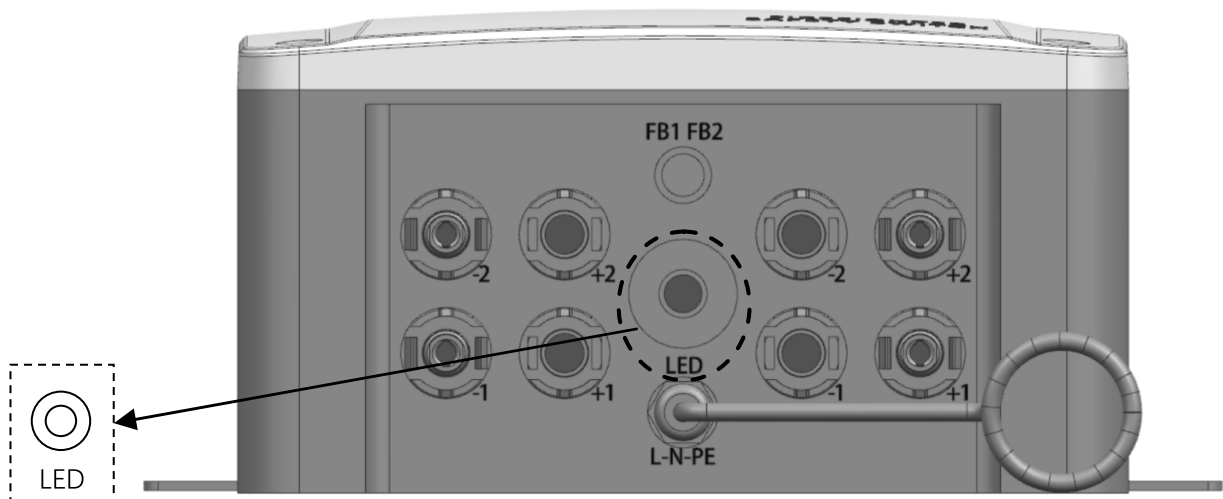
Step 4: Connect the AC cable.



Note: From the state of signal cable, we can know the on and off states of the switch remotely. When the switch is ON, FB1 is connected to FB2; when the switch is OFF, FB1 is disconnected from FB2.

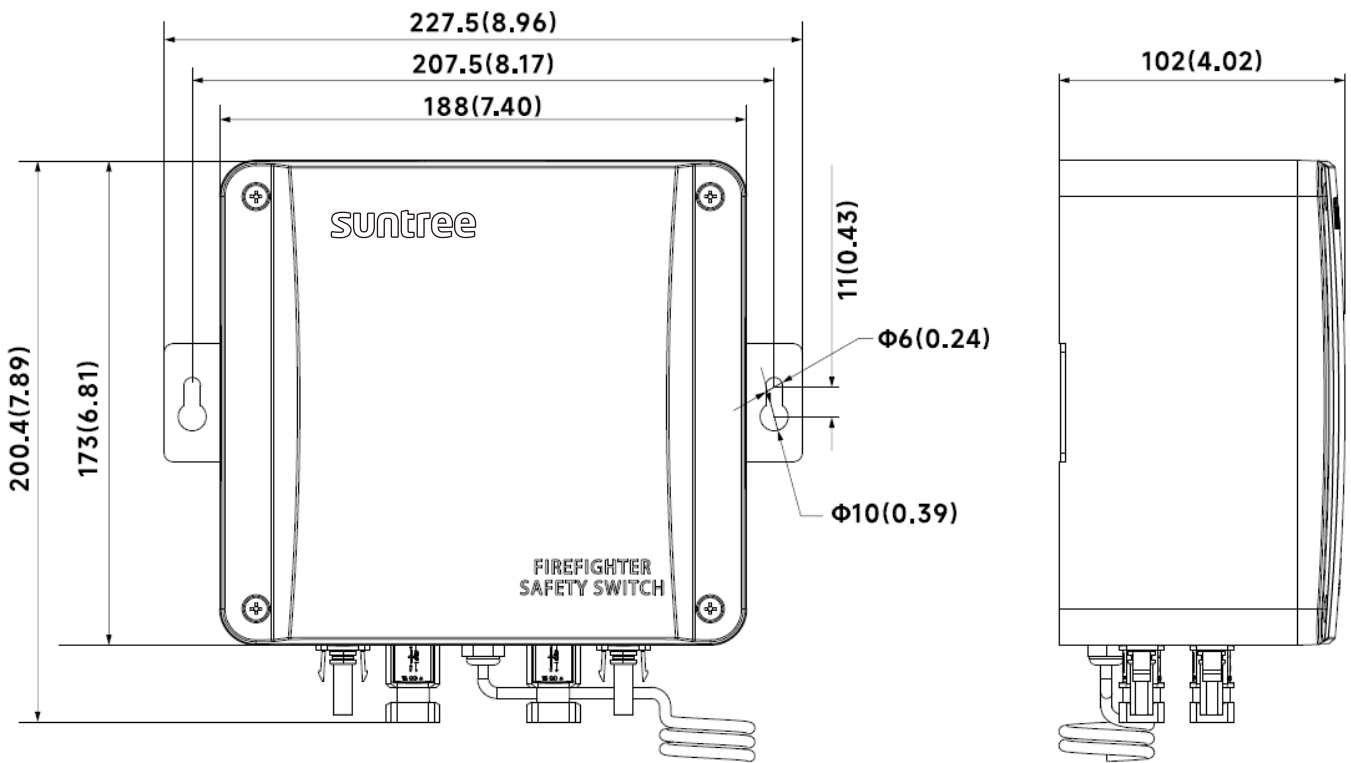
This function is optional, if need remote display, M12 cable gland and simple circuitis needed.

Step 5: Start the Firefighter Safety Switch







Turn ON the AC power supply. The Firefighter Safety Switch will start to work and the DC switch will be ON, the status LED will be red.

**Size chart:**



## Technical Data

MODEL	S-ISOH40-1	S-ISOH40-2
Number of strings	1	2
<b>Main loop parameters</b>		
Max DC voltage	1500 Vdc	
Max DC current	40A/50A	
DC connector	MC4	
<b>Control loop parameters</b>		
Power supply type	AC single phase	
Nominal voltage	230 Vac	
Operating voltage	100-270 Vac	
Nominal frequency	50 Hz 、 60 Hz	
Operating frequency	47-63 Hz	
Nominal current	30 mA	
Max current	300 mA	
AC connector	Plug-in	
<b>Product parameters</b>		
Protection degree	IP 65	
Protection level	Class II	
Certification	CE	
Switch according to	EN 60947-3	
Number of operations	>10000	
N. of operations under load	>1500	
Operating temperature	-20 °c- 70 °c	
Temperature sensor trigger	70 °c	
Warranty	5 years	

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