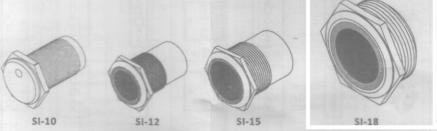
## SI-10/12/15/18 Infrared Touchless Sensor Operation & Installation Manual

Suitable for access control system, push button and auto-control detection.



Please make sure no object(Include protection stickers)
 is blocking the infrared sensing panel before use.

#### I. Features

- Diameter of 19mm, 22 mm or 38mm to accommodate and mount in different panels.
- Activate without pressing to prevent any disease contagion. It is suitable for access control system
  that widely used in public areas such as hospitals or restaurants. It is also can be used as auto-control
  detection.
- · Built-in microcontroller with power on self testing function.
- Specially designed to prevent any interference from other infra-red.
- . Double color status light, adjustable proximity range.
- Door opening time is able to set trigger state (0.5~30sec) or toggle mode output
- Operating temperature : -10°C ~+70°C.
- . Sealing protection 1p65.
- Infrared proximity has a total lifespan of 100,000 hours. Relay has a total lifespan of 1,000,000 times.

### II. Specification

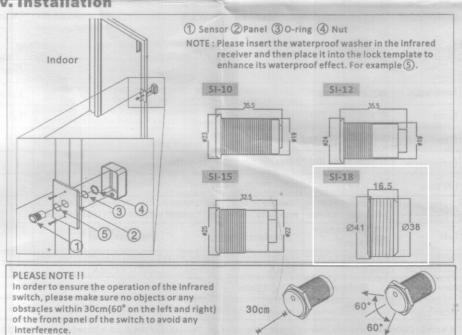
	SI-10	SI-12	SI-15	SI-18	Note			
Powerinput	DC12V~DC24V							
Range	4~15CM(±25%)							
Output Loading	1A@DC30V(Max.)							
Output State	Trigger state (0.5~30sec) or toggle mode output							
Life Time	Infrared sensor:100,000 hours / Relay mechanical lifespan:1000,000							
Indicator	Standby : RED Proximity : GREEN							
Case	Polycarbonate fireproof	Stainless Steel	Stainle					
Current Consumption	Maximum current 30mA	Maximum current 30mA	Maximum current 35mA	Maximum current 45mA	DC 24V			
Dimensions	Ø19mm	Ø19mm	Ø22mm	Ø38mm				
Weight	10g	21g	24.5g	50g				

※ Note1: Different materials have different reflective rate. The value of the chart is based on the test of 18% neutral gray card.

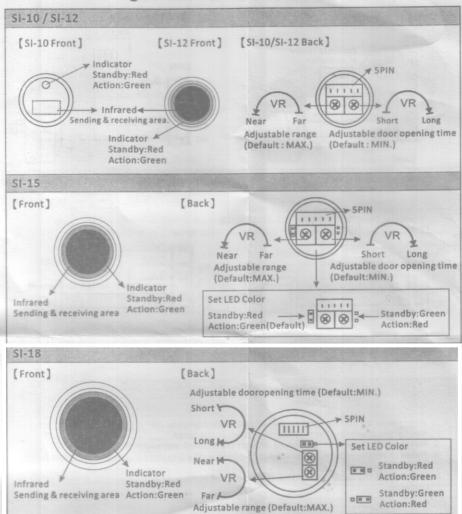
## III. Model numbers

Sigle switch	Template			Package ·		
SI-10	SI-20P	SI-60P	SI-80P	SI-20	SI-60	□ 0 e 0 e 0 s 1-80
SI-12	SI-22P	SI-62P	[] ○ ○ ○ Ô SI-82P	\$1-22	S1-62	©
SI-15	() () () () () () ()	SI-65P	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	\$1-25	S1-65	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
\$1-18		SI-68P	SI-88P		SI-68	SI-88

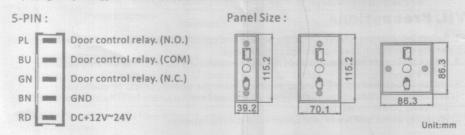
# IV. Installation



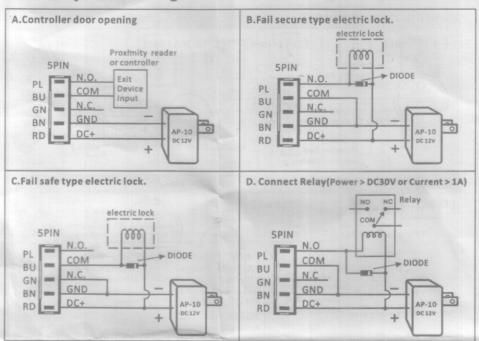
# V. Panel & Wirings



※ Example of SI-10; adjust door opening time to the maximum (turn VR to the right end) to change door
opening Relay as Toggle mode output (such as the switch function).



## VI.Example of wirings:



※ Please connect to diode when the control terminal is loading in order to absorb surge to prevent damage to the sensor.

#### Troubleshooting

- Q: Always on action mode (indicator light does not change).
- A: 1. Please wipe the surface clean such as oil stain, liquid drops or marks and remove any objects in front of the proximity that may interfere its proximity range.
  - 2. Please adjust the proximity distance. Shorter the distance may avoid interference.
  - 3. Please check the voltage. Lower voltage may shorten the proximity distance or cause the switch unable to function.
  - 4. Please check the delay setting time. If it is being set as too long or Toggle mode, it might affect its operation.
- Q: Proximity failed even the infrared switch's power light is on.
- A: 1. Please adjust the proximity distance to check if it is too short.

  2. Please check the current (12V~24V). The switch is unable to function if the voltage is incorrect.

### VII. Precautions

- 1. Before input power, please check the voltage and polarity of the power supply in order to avoid wrong connection causing damage to the reader.
- 2. Please make sure no object(Include protection stickers) is blocking the infrared sensing panel before use.
- 3. Please do not conduct any fixing or modification to the system, unless by qualified personnel.
- 4. Self testing function: Green light on for one second and no action from Relay →red light on to complete power on self testing.
- 5. Warranty of the unit is one year under normal circumstances.