Neptune
Security Products

NEITB58W/NEITB98W
INSTALLATION & OPERATING MANUAL

Please read the manual before use and keep for future reference

CE RoHS

NEITB58W

NEITB98W

80
115
28

80
80
28

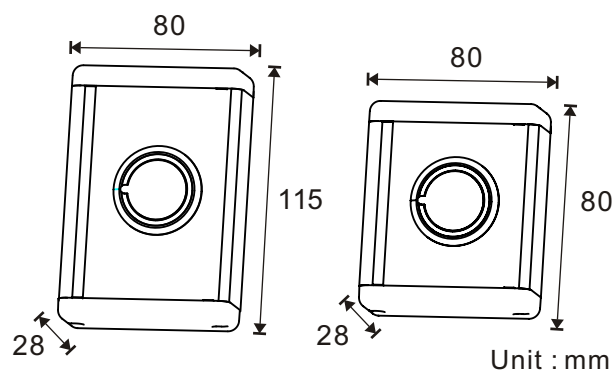Unit : mm

※Please make sure no object (Including protection stickers) is blocking the infrared sensing panel before use.
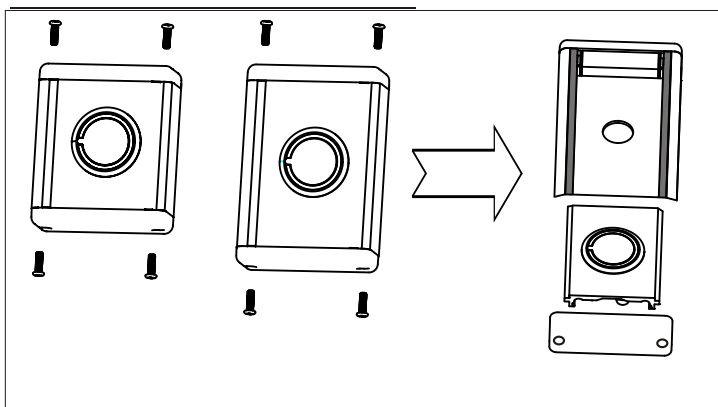
Features:

- Activated by Infrared Touchless Sensor. It is suitable for access control systems that are widely used in public areas such as hospitals or restaurants. It can also be used as an auto-control detection.
- Built-in micro-controller with power on self testing function.
- Specially designed to prevent any interference from other infra-red.
- Double color status LED, 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 Infrared Button - IP65

Specifications:
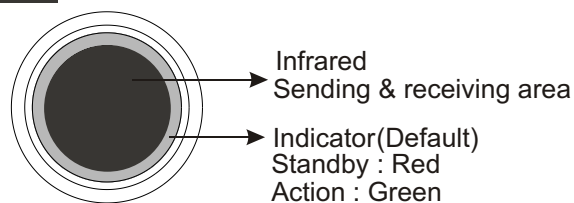
Power input	DC12V~DC24V (±15%)
Range	4~15CM(±25%) ※Note1
Output Loading	1A@DC30V(Max.)
Output State	Trigger state (0.5~30sec) or toggle mode output
Life Time	Infrared sensor:100,000 hours / Relay mechanical lifespan:1,000,000 times
Indicator	Standby: RED ; Action: GREEN (Colour of indicator LED is adjustable)
Case	Stainless Steel / PC / Aluminum Alloy
Current Consumption	Maximum current 45mA@DC24V
Weight	NEITB58W: 270g/ NEITB98W : 202g (G.W.)

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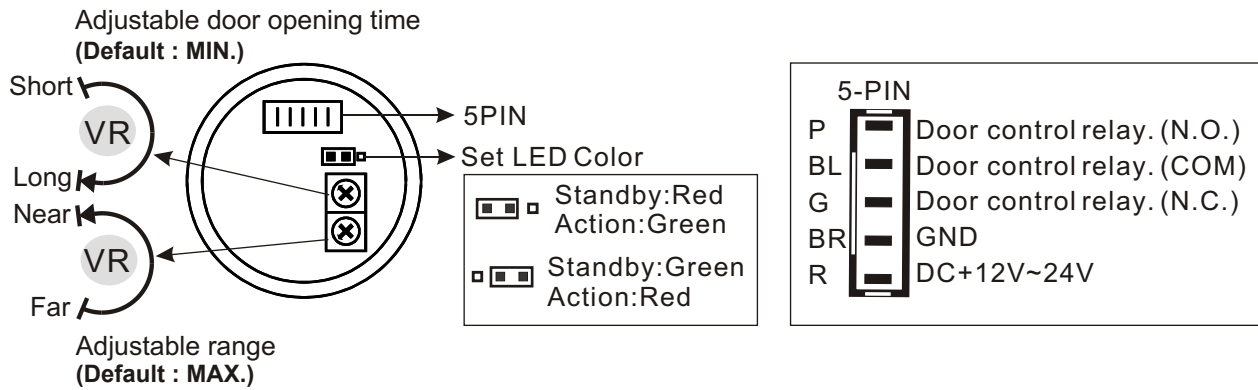
Panel and Connections:

Front

Infrared
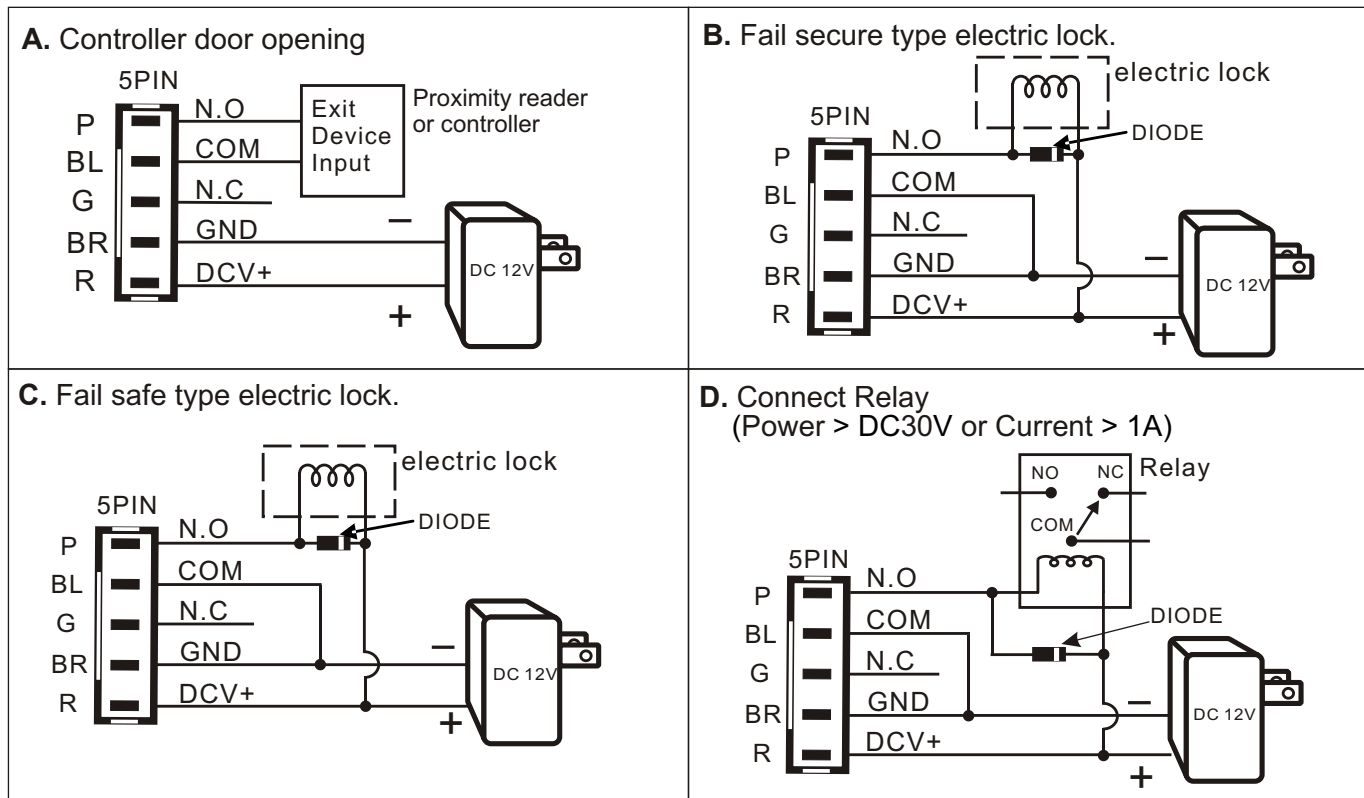Sending & receiving area

Indicator(Default)
Standby : Red
Action : Green

※ In order to ensure the operation of the infrared switch, please make sure no objects or any obstacles are within 30cm & 60°on the left and right of the front panel of the switch to avoid any interference.

Adjustable door opening time
(Default : MIN.)

Short
Long
Near
Far

VR

VR

Adjustable range
(Default : MAX.)

5PIN

Set LED Color

▪▪▫	Standby:Red Action:Green
▫▪▪	Standby:Green Action:Red

5-PIN

P	Door control relay. (N.O.)
BL	Door control relay. (COM)
G	Door control relay. (N.C.)
BR	GND
R	DC+12V~24V

Example of Connections:

A. Controller door opening

5PIN

P	N.O	Exit Device Input	Proximity reader or controller
BL	COM		
G	N.C		
BR	GND		DC 12V
R	DCV+		

B. Fail secure type electric lock.

electric lock
DIODE

5PIN

P	N.O
BL	COM
G	N.C
BR	GND
R	DCV+

DC 12V

C. Fail safe type electric lock.

electric lock
DIODE

5PIN

P	N.O
BL	COM
G	N.C
BR	GND
R	DCV+

DC 12V

D. Connect Relay
(Power > DC30V or Current > 1A)

NO   NC   Relay
COM

5PIN

P	N.O
BL	COM
G	N.C
BR	GND
R	DCV+

DIODE
DC 12V

※ Please connect a diode when the control terminal is loading in order to absorb any 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 with its proximity range.
　　2. Please adjust the proximity distance. A Shorter distance may avoid interference.
　　3. Please check the voltage. Lower voltage may shorten the proximity distance or cause the switch to be 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 though 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 will not function if the voltage is incorrect.

Precautions:

- Installation or modification to the system should only be carried out by qualified person.
- Self testing function : Green light on for one second and no action from Relay - red light on to complete power on self testing.

Warranty