

Status Display (SSL-1ZBS)

Introduction

SSL-1ZBS is a ZigBee Status Display designed to display the current status of the system.

The Status Display utilizes ZigBee technology for wireless signal transmission. ZigBee is a wireless communication protocol that is reliable, has low power consumption and high transmission efficiency. Based on the IEEE802.15.4 standard, ZigBee allows a large amount of devices to be included in a network and coordinated for data exchange and signal transmission.

The Status Display serves as an end device in the ZigBee network. It can be included in the ZigBee network but cannot permit any other ZigBee device to join the network through the Status Display.

Device Introduction

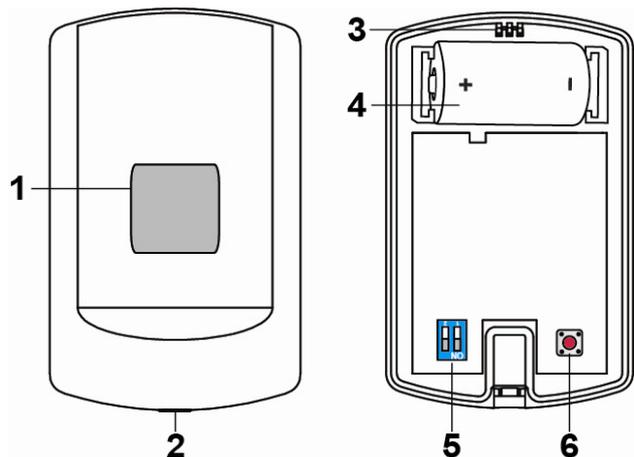
1. LED Display

System Status:

- **Off:** Disarmed Mode.
- **Flashes Green once every 4 seconds:** Armed or Home Armed Mode.
- **Flashes Red once every 3 seconds:** Alarming.

ZigBee Status

- **Flashes Red once:** Pressing and holding the Function Button for 10 seconds to Factory Reset.
- **Flashes Red twice:** The Status Display has successfully joined a ZigBee network.
- **Flashes Red once every 20 minutes:** The Status Display has lost connection to its current ZigBee network.



2. Cover-Fixing Screw

3. Fixing Hook

4. Battery Compartment

5. DIP Switch (Currently Reserved)

6. Function Button

- Press once to send a supervisory signal to the coordinator.
- Press and hold the button for 10 seconds to reset the Status Display.

Features

● **Battery and Low Battery Detection**

The Status Display is powered by one CR123A 3V Lithium battery.

The Status Display features Low Battery Detection function. When the battery voltage is low, the Status Display will transmit Low Battery signal to the ZigBee network coordinator.

● **Supervisory Signal**

The Status Display will transmit a supervision signal to report its condition every 30 minutes.

ZigBee Network Setup

● **ZigBee Device Guideline**

ZigBee is a wireless communication protocol that is reliable, has low power consumption and high transmission efficiency. Based on IEEE802.15.4 standard, ZigBee allows a large amount of devices to be included in a network and coordinated for data exchange and signal transmission.

Due to the fundamental structure of ZigBee network, ZigBee device will actively seek and join network after powering on. Since performing a task in connecting network may consume some power, it is required to follow the instructions to avoid draining battery of a ZigBee device

- Ensure your ZigBee network router or coordinator is powered on before inserting battery into ZigBee device.
- Ensure the ZigBee network router or coordinator is powered on and within range while a ZigBee device is in use.
- Do not remove a ZigBee device from the ZigBee network router or coordinator without removing the battery from a ZigBee device.

● **Joining the ZigBee Network**

As a ZigBee device, the Status Display needs to join a ZigBee network to connect to the power device. Please follow the steps below to join the Status Display into the ZigBee network.

1. Detach the Top Cover and Base assembly by loosening the Cover-Fixing Screw using a Philips screwdriver.
2. Press and hold the Function Button for 10 seconds for the Status Display to search and join an existing ZigBee network. At the 10th second, the LED Display will flash red once. Please make sure to enable the permit-join feature on the router or coordinator of your ZigBee network
3. If the Status Display successfully joins a ZigBee network, the LED Display will flash red twice to confirm.
4. After joining the ZigBee network, the Status Display will be registered in the network automatically. Please check the ZigBee network coordinator, system control panel or CIE (Control and Indicating Equipment) to confirm if joining and registration is successful.
5. If network joining and registration is unsuccessful, please check your ZigBee network coordinator, control panel or CIE setting to ensure the permit-join function is available, and then use the Factory Reset function below to join the ZigBee network.

● **Removing Device from ZigBee Network (Factory Reset)**

To remove the Status Display from current ZigBee network, the Status Display must be put to Factory Reset to complete device removal. Factory Reset function will clear the device of its stored setting information and prompt the Status Display to search for new ZigBee network.

Before removing device, make sure the Status Display is within current ZigBee network signal range

1. Press and hold the function button for 10 seconds, then release the button to reset Status Display.
2. Upon reset, the Status Display will clear current ZigBee network setting and transmit signal to ZigBee coordinator to remove itself from current ZigBee network. It will then actively search for available ZigBee network again and join the network automatically.

Installation

● **Mounting the Status Display**

The Status Display can be mounted using two methods: Self-adhesive or Screw mounting.

Self adhesive mounting

1. Clean the surface with a suitable degreaser.
 2. Remove the protective covering from one side of double-sided adhesive pad and firmly apply to the back of the device.
 3. Remove the other covering and firmly place/press the device in the desired location.
- Do not use the Self-adhesive mounting method on poorly painted and/or rough surfaces.

Screw Mounting

The base of the Status Display has two screw knockouts, where the plastic is thinner for mounting purposes. To mount the Status Display:

1. Detach the Top Cover and Base assembly by loosening the Cover-Fixing Screw using a Philips screwdriver.
2. Break through the knockouts on the base.
3. Use the holes as a template to drill two holes and insert the wall plugs.
4. Screw the base into the wall plugs.
5. Replace the top cover over the base by hooking the base onto the fixing hook and pushing the cover towards the base.
6. Secure and screw the top cover back on to its base using a Philips screwdriver.

