NINGBO RSS500T Brightness Sensor Transmitter Instruction Manual

Contents

NINGBO

NINGBO RSS500T Brightness Sensor Transmitter

Specifications

- **Frequency:** 433.92 MHz
- **Battery operation**: 2×1.5V AAA
- **Transmitting distance**: 70 meters (open area)
- Waterproof
- **Size:** 89x59x25mm (H x W x D)

Product Usage Instructions

Pairing Operation:

When the actual brightness is continuously darker than the set darkness threshold for about 7 seconds, the sensor triggers actions for dusk. Similarly, if the brightness is continuously brighter than the set daylight brightness threshold for about 1 minute, actions for dawn are triggered.

Install the sensor in a location with varying natural brightness and away from direct light sources to avoid misoperation.

Working Mode and Setting:

The device offers two working modes: Automatic mode and Delay-off mode. The default mode is Automatic.

Dip Switch Settings:

Dip Switch	Mode	Function Description
111	Automatic	To send ON signal at Dusk, OFF signal at Dawn
001	Delay-off Time: 2H	To send OFF signal after 2 hours

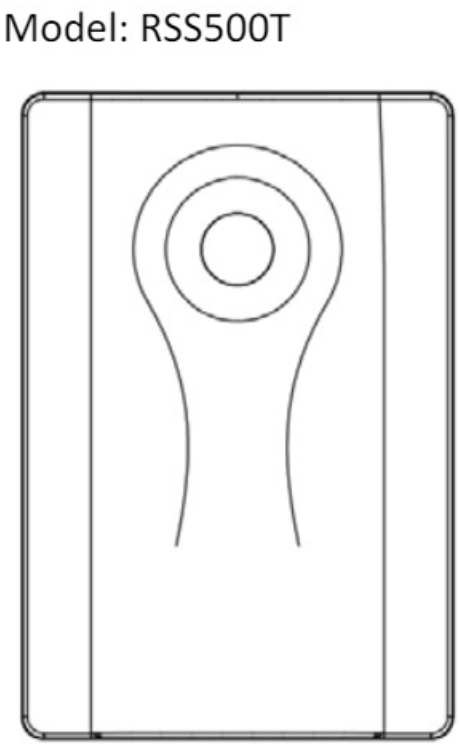
Dip Switch Setting Method:

There are 3 sliding switch handles labeled 1, 2, and 3. Each handle can be in UP (0) or DOWN (1) position. For example, to set Delay-off 8H mode (100), move switch handles 2 & 3 to UP position.

FAQ

- **Q: What is the default working mode of the Brightness Sensor Transmitter?**
  - **A:** The default working mode is Automatic mode where the sensor sends ON signal at Dusk and OFF signal at Dawn.
- **Q: How do I change the delay-off time setting?**
  - **A**: Use the Dip Switch settings to select the desired delay-off time ranging from 1H to 10H by adjusting the switch positions accordingly.

Model: RSS500T



INTRO

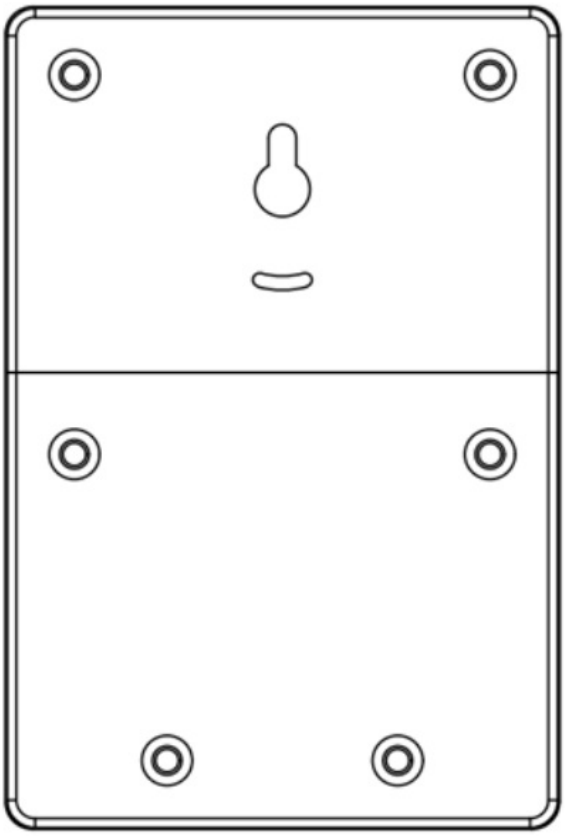
Brightness Sensor Transmitter (Twilight sensor) with adjustable timer function. Ideal for lighting scenarios. Thanks to this sensor, when the light decreases, the sensor send the command to the compatible actuator micro modules or socket to turn on the light.

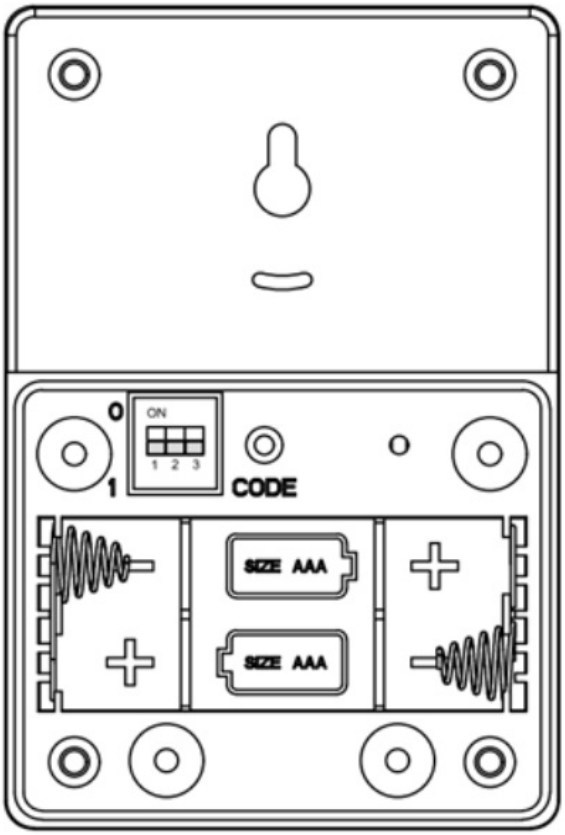
FEATURES:

- Sense environment brightness (darkness) at a certain level to switch on/off receiver receiver-connected lamp.
- Two modes design (automatic, delay-off), and delay-off time has 6 selections: 1h/2h/4h/6h/8h/10h.
- Waterproof
- Compatible to all RS learning code receivers

BUTTON/SWITCH/LED INDICATOR:

- **CODE button**-Learning button
- **LED indicator**-RF transmission
- **Dip Switch**– working mode setting switch





PAIRING OPERATION

To learn it with the target receivers

To open the battery cover and install the battery. When receivers enter into learning status (the LED blinks), just press the CODE button for 3 seconds until the receiver's LED stops flashing, and this means learning is completed. And then short press the CODE button to test if the learning is successful. (If need to delete the learning code in receivers, please make the receiver into the learning status first, then press the CODE button for 3 seconds, the deleting will be done.)

Note:

- **a)** When the actual brightness is continuously darker than the set darkness threshold for about 7 seconds, and the corresponding action is performed when dusk is considered to be coming.
- **b)** When the actual brightness is continuously brighter than the set daylight brightness threshold for about 1

minute, and the corresponding action is performed when dawn is considered to be coming.

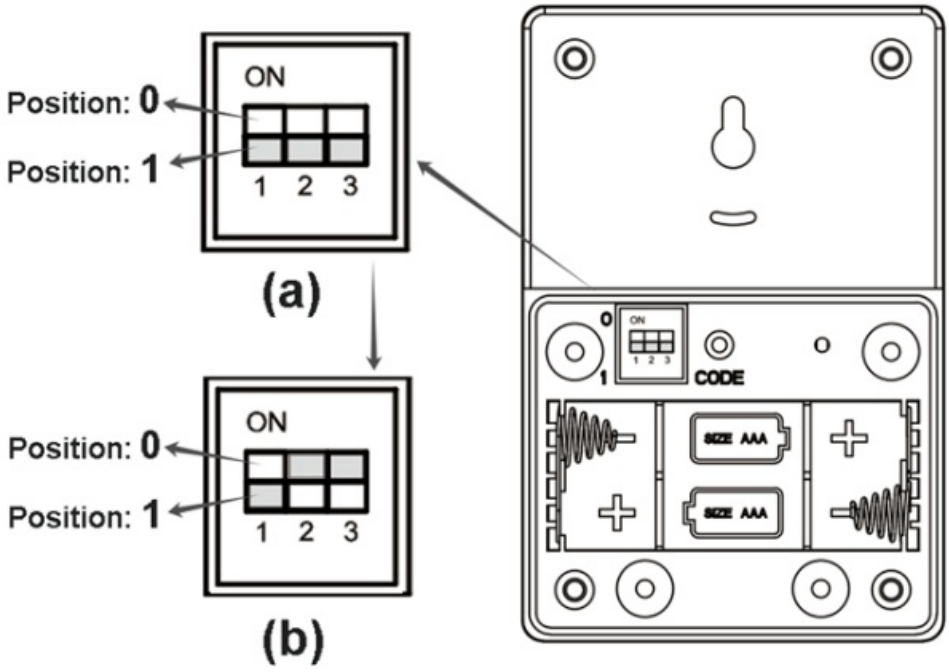
- **c)** Install the sensor in a location where the brightness of the natural environment varies greatly, and do not place the sensor in an environment where the brightness is easily affected by the light source to avoid misoperation.

WORKING MODE AND SETTING

- **a) 2 working modes**: Automatic mode, Delay-off mode, and the Ex-factory default mode is Automatic (111). the details as follows:

Dip Switch	Mode	Function Description
1 1 1	Automatic	To send ON signal to receivers at Dusk, and send OFF signal at Dawn
0 0 0	Delay-off Time: 1H	To select the corresponding delay-off time, for example 10H To send ON signal to receivers at Dusk, and send OFF signal after 10 hours Others delay-off time setting, and so on
0 0 1	Delay-off Time: 2H	
0 1 0	Delay-off Time: 4H	
0 1 1	Delay-off Time: 6H	
1 0 0	Delay-off Time: 8H	
1 0 1	Delay-off Time: 10H	
1 1 0	Empty	Power off

b) Dip switch setting method



There are 3 sliding switch handles, and mentioned numbers 1, 2 and 3 on the switch. Each switch handle can move to 2 positions UP and DOWN. UP represents 0 position and DOWN represents 1 position. The factory default mode is Automatic mode (111), and the three switch handles is at 1 position (see fig (a)). For example, when you want to choose Delay-off 8H mode (100), just move the switch handle 2&3 to 0 position (see fig (b)), then setting finished. Other mode settings, and so on.

SPECIFICATION:

- **Frequency:** 433.92 MHz
- **Battery operation**: 2×1.5V AAA
- **Transmitting distance**: 70 meters (open area)

Waterproof

- **Size**: 89x59x25mm (H x W x D)

FCC statement

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

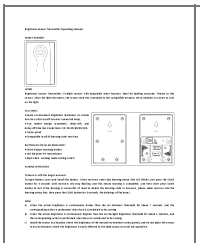
- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Documents / Resources

	NINGBO RSS500T Brightness Sensor Transmitter [pdf] Instruction Manual RSS500T Brightness Sensor Transmitter, RSS500T, Brightness Sensor Transmitter, Sensor Transmitter, Transmitter

References

- User Manual