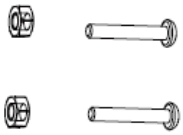
Milesight EM400 Series IoT Laser Distance Sensor User Guide

Contents

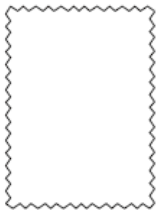
Milesight EM400 Series IoT Laser Distance Sensor

Packing List

1 × EM400 Sensor



2 × Mounting Kits

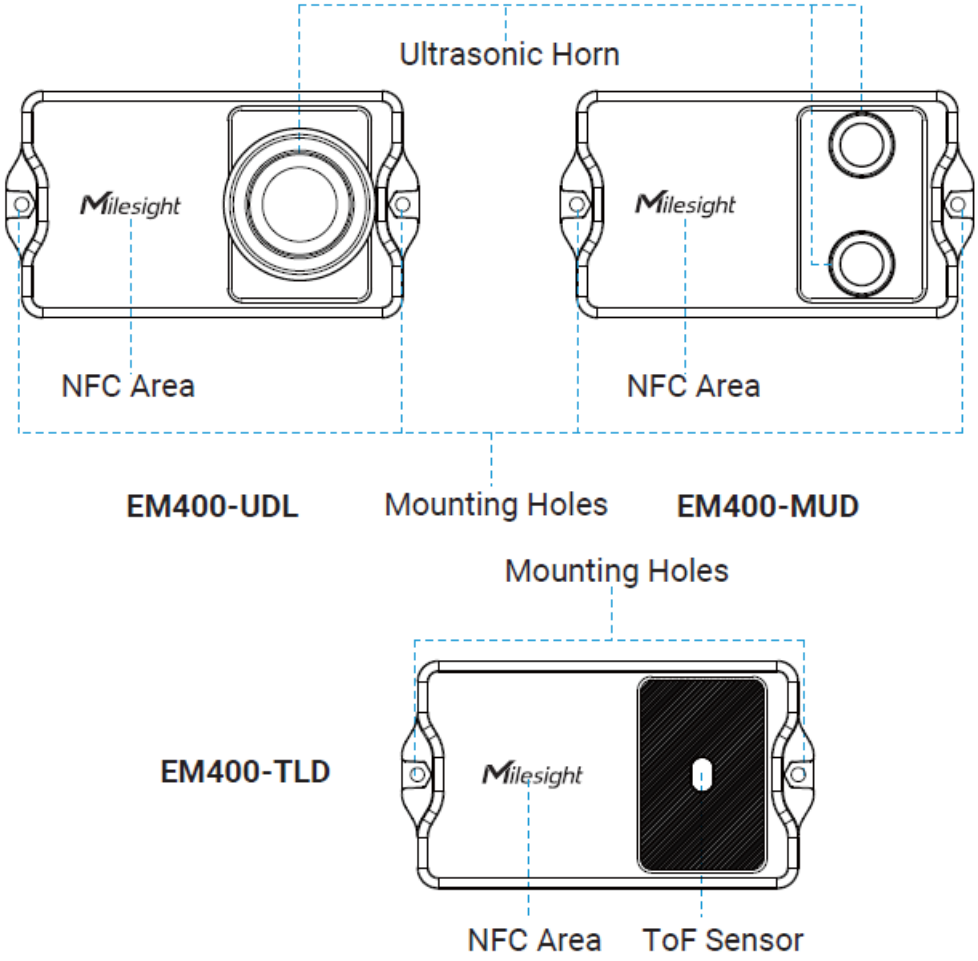


1 × Mirror Cleaning Cloth
(EM400-TLD Only)

1 × Quick Start Guide

1 × Warranty Card

Hardware Introduction



Power Button Patterns

EM400 series equips with power button inside the device for emergency switch on/off. Usually users can use NFC to complete all steps.

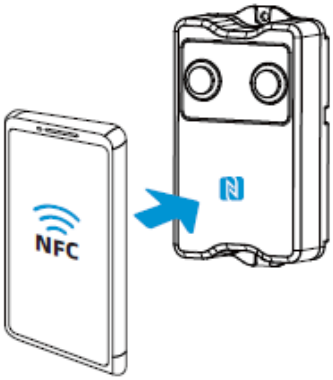
Function	Action	LED
Turn On	Press and hold the button for more than 3 seconds.	Off ➔ On
Turn Off	Press and hold the button for more than 3 seconds.	On ➔ Off
Reset to Factory Default	Press and hold the button for more than 10 seconds.	Quickly Blinks
Check On/Off Status	Quickly press the power button.	Light On: Device Is On
		Light Off: Device Is Off

Configuration Guide

Android

iOS

1. Download “Milesight ToolBox” App on an NFC- supported smartphone.

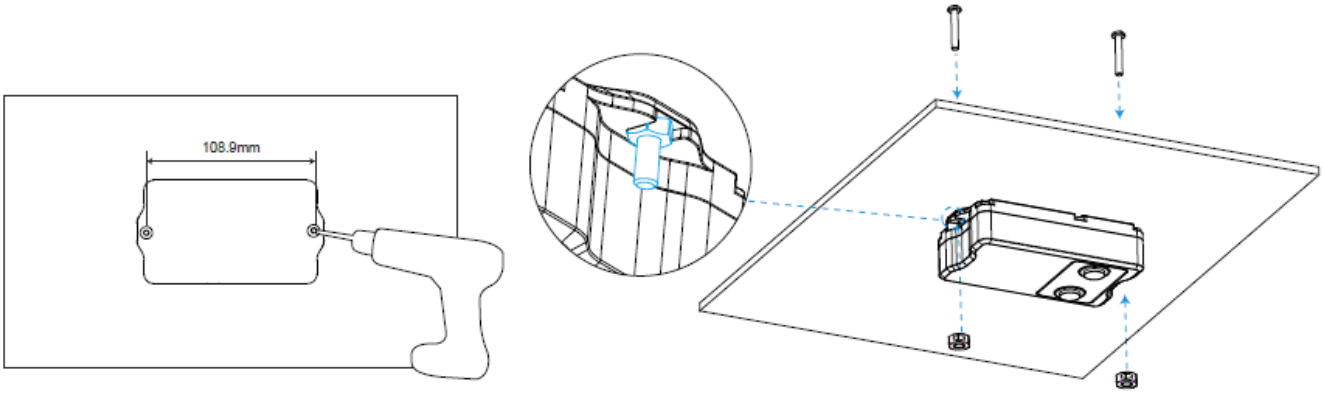


2. Open “Milesight ToolBox” App and attach the smartphone with NFC area to write the device until App shows a successful prompt. (Default config password: 123456)

Besides, it can be configured by dedicated NFC reader provided by Milesight IoT.

Installation

1. Drill two holes on the container cover according to the location of device mounting holes.



2. Put the device under container cover and align the holes in order to perfectly screw the bolts into the holes from the other side of the cover.

Besides, the device can also be fixed by two M4 mounting screws and wall plugs.

EM400-UDL/MUD Installation Note

- In order to provide the best data transmission, please ensure the device is deployed within the signal range of the LoRaWAN gateway and keep it away from metal objects and obstacles.
- The device must be placed in a horizontal position on the top of the object so that it has a clear path to the object.
- Install the device in a place where it is far away from the side-wall more than 30cm and without obstructions that block the ultrasonic signal. If the device needs to be installed on the side wall, please ensure the ultrasonic horn is away from the side wall.
- When EM400-MUD is in waste bin mode, place the device in the center of waste bin and here are some recommended sizes of waste bins: when the height is 88cm, the minimum radius should be 24cm.

EM400-TLD Installation Note

- In order to provide the best data transmission, please ensure the device is within the signal range of the LoRaWAN gateway and keep it away from metal objects and obstacles.
- Avoid strong light, like direct sunlight or IR LED, in the detection area.
- Do not install the device close to glass or mirror.
- After installation and adjustment, please remove the protective film.
- Do not touch the lens of sensor directly to avoid leaving the fingerprint on it.
- The detecting performance will be affected if there's dust on the lens. Please use the mirror cleaning cloth to clean the lens if needed.
- The device must be placed in a horizontal position on the top of the object so that it has a clear path to the object.
- When using waste bin mode, place the device in the center of waste bin and here are some recommended sizes of waste bins: when the height is 40cm, the minimum radius should be 10cm; when the height is 80cm, the minimum radius should be 19cm.

FCC Statement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 equipment and receiver.
- Connect the equipment 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.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance 20cm between the radiator& your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

All software & files can be downloaded from: https://www.milesight-iot.com/documents-download/

- Cloud App
- Quick Start Guide

CONTACT

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Documents / Resources

	Milesight EM400 Series IoT Laser Distance Sensor [pdf] User Guide 2AYHY-EM400, 2AYHYEM400, em400, EM400 Series IoT Laser Distance Sensor, EM400 Series, EM400 Series Laser Distance Sensor, IoT Laser Distance Sensor, Laser Distance Sensor, IoT Distance Sensor, Distance Sensor, Laser Sensor, Sensor

References

- Milesight IoT - LoRaWAN, 5G & AIoT
- Download Center | Milesight - AIoT Solution Provider