

# NB-IoT Door Sensor

## NDS03A



## OVERVIEW:

The Dragino NDS03A is an [Open/Close NB-IoT Door Sensor](#). It detects door open/close status and uplinks to IoT server via NB-IoT network. NDS03A can connect two door sensors. user can see the door status, open duration, open counts in the IoT Server.

The NDS03A will [send periodically data every 4 hours](#) as well as for each door open/close action. It also counts the door open times and calculates the last door open duration. Users can also disable the uplink for each open/close event, instead, NDS03A can count each open event and uplink periodically. NDS03A has a [Datalog feature](#), it will record the open/close event and the user can retrieve the history from NB-IoT. NDS03A has the [open alarm feature](#), user can set this feature so the device will send an alarm if the door has been open for a certain time. NDS03A is designed for outdoor use. It has a weatherproof enclosure and industrial level battery to work in low to high temperatures.

NarrowBand-Internet of Things (NB-IoT) is a [standards-based low power wide area \(LPWA\) technology](#) developed to enable a wide range of new IoT devices and services. NB-IoT significantly improves the power consumption of user devices, system capacity, and spectrum efficiency, especially in deep coverage.

NDS03A supports different uplink methods including [TCP](#), [MQTT](#), [UDP](#), and [CoAP](#) for different application requirements.

NDS03A is powered by [8500mAh Li-SOCl2 battery](#), It is designed for long-term use of up to 5 years. (Actually Battery life depends on the use environment, update period & uplink method.)

To use NDS03A, user needs to check if there is NB-IoT coverage in the field and with the NB-IoT bands that NDS03A supports. If local operator support it, user needs to get a [NB-IoT SIM card](#) from the operator and install into NDS03A to get NB-IoT network connection.

### Features:

- Bands: B1/B3/B5/B8/B20/B28 @H-FDD
- Ultra low power consumption
- Open/Close detect
- Open/Close statistics
- connect two door sensors
- Monitor Battery Level
- Micro SIM card slot for NB-IoT SIM
- Uplink on periodically
- Downlink to change configure
- Outdoor Use
- Datalog feature
- Wall Mountable
- 8500mAh Battery for long-term use
- AT Commands to change parameters

### Specifications:

#### Common DC Characteristics:

- Supply Voltage: 2.1v ~ 3.6v
- Operating Temperature: -40 ~ 85°C

#### NB-IoT Spec:

- B1 @H-FDD: 2100MHz
- B3 @H-FDD: 1800MHz
- B8 @H-FDD: 900MHz
- B5 @H-FDD: 850MHz
- B20 @H-FDD: 800MHz
- B28 @H-FDD: 700MHz

### Order Info: NDS03A

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