

NB-IoT Distance Detection Sensor

NDDS75



OVERVIEW:

The Dragino NDDS75 is a NB-IoT Distance Detection Sensor for Internet of Things solution. It is used to measure the distance between the sensor and a flat object. The distance detection sensor is a module that uses **ultrasonic sensing** technology for distance measurement, and **temperature compensation** is performed internally to improve the reliability of data.

The NDDS75 can be applied to scenarios such as horizontal distance measurement, liquid level measurement, parking management system, object proximity and presence detection, intelligent trash can management system, robot obstacle avoidance, automatic control, sewer, bottom water level monitoring, etc.

It detects the **distance between the measured object and the sensor**, and uploads the value via wireless to IoT Server via NB-IoT Network.

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.

NDDS75 supports different uplink methods include TCP, MQTT, UDP and CoAP for different application requirement.

NDDS75 is powered by **8500mAh Li-SOCI2 battery**, It is designed for long term use up to 5 years. (Actually Battery life depends on the use environment, update period & uplink method)

To use NDDS75, user needs to check if there is NB-IoT coverage in local area and with the bands NDDS75 supports. If the local operate support it, user needs to get a **NB-IoT SIM card** from local operator and install NDDS75 to get NB-IoT network connection.

Features:

- NB-IoT Distance Sensor Node
- Ultra low power consumption
- Distance Detection by Ultrasonic technology
- Flat object range 280mm - 7500mm
- Temperature Compensation for measurements
- NB Bands: B1/B3/B8/B5/B20/B28
- Uplink via MQTT,TCP,CoAP or UDP
- AT Commands to change parameters
- Uplink on periodically
- IP66 Waterproof Enclosure

Specifications:

NB-IoT Module:

- NB Module: Quectel BC95-G
 - B1 @H-FDD: 2100MHz
 - B3 @H-FDD: 1800MHz
 - B8 @H-FDD: 900MHz
 - B5 @H-FDD: 850MHz
 - B20 @H-FDD: 800MHz
 - B28 @H-FDD: 700MHz
- Protocol: CoAP, UDP, MQTT, TCP

Part Number - NDDS75

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