

DH100 Smart Door Magnetic Detector

Datasheet _NB-IoT Version



Version: V1.1

Date: 2020-07-15

Changes

V1.1 Modify some specifications

V1.0 Initial version

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Cautions

- The battery is non-rechargeable. Please do not charge it.
- If the battery is out of power, please replace it with a battery of the same specification obtained from CNDingtek
- The battery can not work when temperatures is above 85 ° C.



1 Overview

DH100 is a smart door magnetic detector, which can be used to detect the switch status of doors and windows; when the doors and windows are opened or closed, the information will be immediately transmitted to the cloud server through the built-in NB-IoT (narrowband Internet of Things) module. Users can observe status information remotely. The device uses a built-in battery to transmit data through the NB-IoT method, with high real-time performance and low power consumption.

Support B1, B3, B5, B8, B20, B28 frequency etc, Due to the low power consumption algorithm, the internal battery can work for about 1 year (report 3 times a day).

2 Features

- Easy to install and small in size, the product can be installed by 3M adhesive method, no wiring, installation within second
- Accurate and timely, real-time monitoring, alarm immediately when the door is opened.
- Low power consumption.
- Multiple application environments.

3 Application

Widely used in security protection, smart home and other fields, such as home, elderly, children, communication room, production workshop, logistics warehouse, laboratory, museum and other scenes of doors and windows monitoring, It can realize the monitoring and security management of windows and drawers

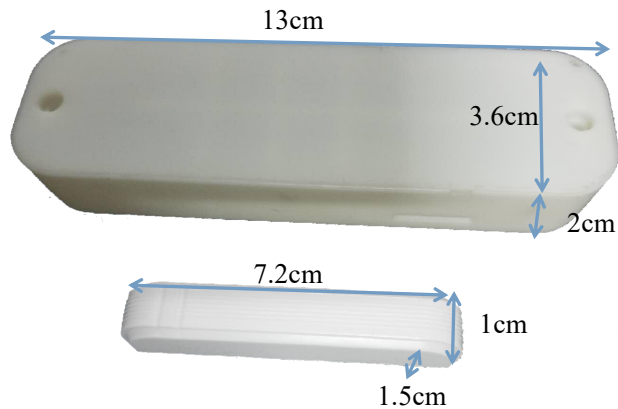


4 Specification

Specification	Dimension	130*36*20mm
	Net weight	40g
	Color	White/Black/Gray, Optional
	Shell material	ABS
Detector	Theory	Magnetic Switch
Wireless	Wireless	NB-IoT
	Communication module	Quectel,BC26
	Frequency	B1, B3, B5, B8, B20, B28 etc
Protocol	Protocol	NB-IoT,TCP
Power	Inner Battery	2400mAh(2 AA battery)(Battery is

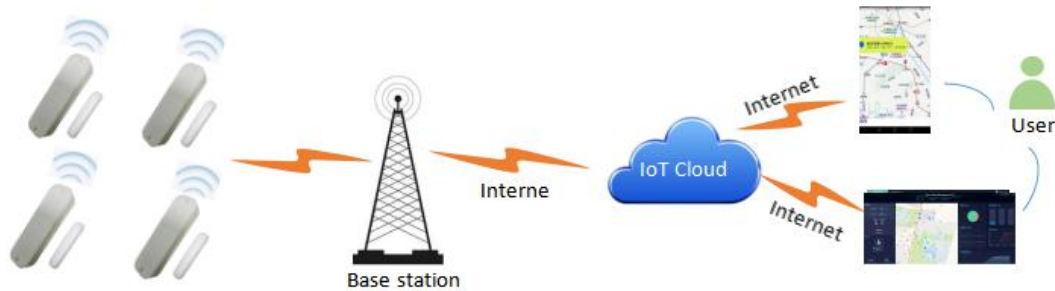
		not included by default, please purchase if necessary)
	Battery Life	1 year, three times report per day
Environment	Working Temperature	-20 ~ +70°C
	Storage Temperature	-40 ~ +85°C

5 Mechanical Dimensions



(Note: For reference only, actual product updates are frequent without notice)

6 System network diagram



Through the built-in NB-IoT wireless module, it transmits data to the base station through the NB-IoT network, Then the Internet transmits the data to the web server and application server. Finally, the user can monitor the status of the door magnetic switch in real time according to the Web or APP, and online monitoring and management.

7 Protocol and API interface

The terminal communication protocol and API interface files are confidential documents and are only available to customers who purchased the device and signed NDA (non-disclosure agreement) documents with CNDingtek and his own company. If you want to integrate with your own system by using a protocol / API interface, please contact our sales team at service@dingtek.com.

8 Installation and Test

8.1 Start up device

The device is not connected to the power supply and the NB card is not installed by default, Before use, please refer to the instruction manual to open the case and install the card. Connect the power supply and start the device. Then start testing according to the instructions

8.2 Installation

With 3M glue, the device can be fixed on both sides of the gap.

9 Package

Accessories name	Specification	Quantity	Note
Device	Door magnetic detector	1	
TTL	Serial tools	1	Serial tools (at least one per batch of equipment)
3M glue		3	For installation
Manual		1	
Note: This door magnetic detector does not include NB-IoT communication SIM card by default.			