

MANHOLE SENSOR

Overview

NETOP Manhole IP67 with a mechanical switch sensor is a long range wireless sensor which can be used for Manhole opened/closed application that provide manhole cover's status information in a real time. This sensor is compatible with NB-IoT Technology.

Key Features

- Real plug & play
- Easy to mount & install
- Maintenance free – install & forget
- Excellent Extended Range in Buildings and Underground
- Easy deployment utilizing cellular system
- Micro SIM(default) or Chip SIM Card(depend on request)
- Ultra Low Power Consumption
- Certifications: CE, RoHS



Communication Specs

- The sensor uses LPWAN technology; Narrow Band IoT (NB-IoT) for connectivity
- Supported bands including B1/ B2/ B3/ B4/ B5/ B8/ B12/ B13/ B18/ B19/ B20/ B26/ B28
- Internet Protocol Feature: Support IPv4/TCP/UDP
- Full duplex communication
- Extended Coverage: 10-15km with 164 dB maximum coupling loss (MCL)
- Antenna Types: Internal(default) or External(depend on request) Antenna

Mechanics

- Housing: ABS
- Dimensions: 82 x 82 x 55 mm
- Operating temperature: -40°C to +85°C

Data Security

- AES-128

Power Supply

- AA Battery 3.6 V Li-SOCl₂-Soft LS 14500 (Standard)

Indicators

- RGB Status LED (on board)

Sensor Specifications

Output : Open or close
Data Transmission Period : Every detection

Certifications & Reliability

- CE
- EN 62479
- EN60950
- EN 301 489-1
- EN 301 489-17
- EN 300 328

Applications

- Open-Close Manhole Applications