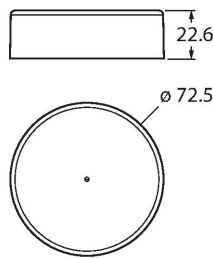


DX80N2X1W0P0ZT-NB

Radio Transmission System – Star Topology Node (FlexPower) with Magnetic Field Sensor



Features

- Internal antenna
- Configuration via software or infrared interface
- Deterministic data transmission
- Frequency hopping FHSS
- Time Division Multiplex Access (TDMA)
- Transmission power: 63 mW, 18 dBm conducted, ≤ 20 dBm EIRP
- Inputs: 1 × integrated magnetic field sensor
- Internal battery, 3 × 3.6 V Li-ion AA cells, not supplied with the device

Functional principle

The DX80 system forms a radio-based network for wireless, bidirectional transfer of sensor signals in a star topology. It consists of a gateway that transmits the I/O signals to the controller and to as many as 47 nodes. The nodes with integrated 3-axis magnetic field sensors are normally powered by integrated batteries and notify the gateway if a metallic object appears in the detection range. An infrared control is required to perform settings, depending on the variant. Depending on the type of gateway used, simultaneous transfer of different measured and switching values is possible, as well as communication via the RS485 interface.

Conformity:

FCC-ID UE300DX80-2400. This device complies with FCC para. 15, subpara. C, 15.247

ETSI/EN: In compliance with EN 300 328: V1.8.1 (2014-04)

IC: 7044A-DX8024

Radiation protection 10 V/m for 80-2700 MHz acc. to EN 61000-6-2

Shock and vibration resistant: IEC 68-2-6 and IEC 68-2-7

Technical data

| | |
|-------------------------------|--|
| Type | DX80N2X1W0P0ZT-NB |
| ID | 3020481 |
| Wireless data | |
| Type of radio | short-range |
| Installation | stationary |
| Topology | Star topology |
| Function | Star topology |
| Device type | Node |
| Frequency band | 2.4-GHz ISM band |
| Frequency range | 2.402 - 2.483 GHz |
| Number of radio channels | 50 |
| Channel width | 1 MHz |
| Spread spectrum technology | FHSS (Frequency Hopping Spread Spectrum) |
| Single-Carrier Residence Time | 7.8 ms |
| Response time typical | < 1000 ms |
| Output power ERP | 18 dB/65 mW |
| Output power EIRP | 20 dB/100 mW |
| Range | 3200000 mm |
| I/O data | |
| Number of channels | 1 |
| Input type | Magnetic field sensor |
| Electrical data | |
| runs with battery | ja |
| Operating voltage | 3.6...5.5 VDC |
| Power-on indication | LED, Green |

Technical data

| Mechanical data | |
|---------------------|--------------------------|
| Design | Cylindrical/Smooth, DX80 |
| Dimensions | Ø 72.5 x 22.6 mm |
| Housing material | Plastic, ABS |
| Antenna connection | Internal (wire loop) |
| Ambient temperature | -40...+85 °C |
| Protection class | IP67 |
| Tests/approvals | |

Accessories

| | |
|---|---------|
| BWA-MGFOB-001 | 3018965 |
| Optical commissioning LED for wireless magnetic field sensors for starting the connection procedure | |