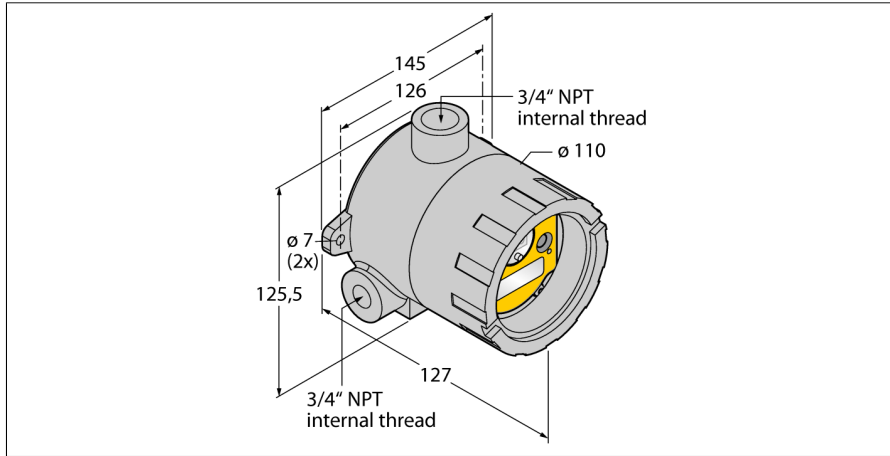


Radio Transmission System
Star Topology
Node (FlexPower)
DX99N2X1S2N0M2X0D1



- External antenna (RG58 RP-SMA connection)
- Aluminium housing
- Integrated signal strength indicator
- Configuration via DIP switch
- Deterministic data transmission
- Frequency hopping FHSS
- Time Division Multiplex Access TDMA
- Transmission power: 63 mW, 18 dBm conducted, ≤ 20 dBm EIRP
- Internal battery
- Powers connected sensors with 10 V
- Inputs: 2 x NPN, 2 x 0...20 mA

| | |
|--|--|
| Type designation | DX99N2X1S2N0M2X0D1 |
| Ident no. | 3014193 |
| Type of radio | short-range |
| Relative level of spurious | -20 dB |
| Wireless data | |
| Type of radio | short-range |
| Installation | stationary |
| 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 |
| Installation | stationary |
| Frequency range | 2.402 - 2.483 GHz |
| Frequency band | 2,4 GHz ISM Band |
| 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 |
| Number of channels | 2 / 2 |
| Input type | NPN / 0...20 mA |
| Number of channels | - |
| Output type | - |
| Design | Rectangular |
| Housing material | Metal, AL |
| Ambient temperature | -20...+80 °C |
| Protection class | IP68 |
| Dimensions | 127 x 145 x 125.5 mm |
| Operating voltage | 3.6...≤ 5.5 VDC |
| Power-on indication | LED, Green |
| Tests/approvals | |
| Approvals | CE CSA ATEX |
| Device marking | II 1 G Ex ia IIC T4 Ga II 1 D Ex ia IIC T82°C Da IP68 |
| Ex approval acc. to conformity certificate | LCIE 08 ATEX 6098 X |

Functional principle

The DX99 nodes are participants of a DX80 network and can be installed in the Ex area up to zones 0 and 20. The network may consist of any combination of DX99 and DX80 nodes. The node with the robust metal housing is powered via the built-in battery. Connected sensors are supplied with 10 V or 18 V at adjustable intervals. The devices are available in different IO configurations. 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 10V/m for 80-2700 MHz acc. to EN 61000-6-2 Shock and vibration resistant: IEC 68-2-6 and IEC 68-2-7

**Radio Transmission System
Star Topology
Node (FlexPower)
DX99N2X1S2N0M2X0D1**

Accessories

| Type code | Ident no. | | Dimension drawing |
|--------------|-----------|---|-------------------|
| BWA-2O2-001 | 3025642 | External antenna, 2 dBi gain, coaxial cable 450 mm with RP-SMA connector, mechanical screw-in thread, 1/2" NPT, can be screwed directly into DX99...D... housing, ATEX II 2G approval | |
| BWA-2O2-002 | 3025644 | External antenna, 2 dBi gain, coaxial cable 450 mm with RP-SMA connector, mechanical screw-in thread, 3/4" NPT, can be screwed directly into DX99...D... housing, ATEX II 2G approval | |
| BWA-BATT-001 | 3078261 | Lithium-ion battery, D cell, 3.6 VDC, 19,000 mAh, GGV UN3090/CL9 | |