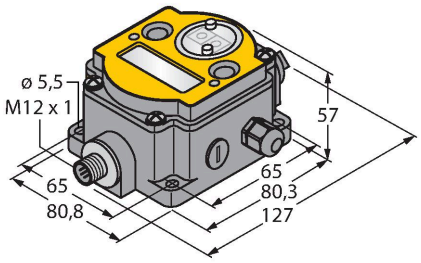
DX80N2X1W0P0U
Radio Transmission System – Star Topology Node (FlexPower)



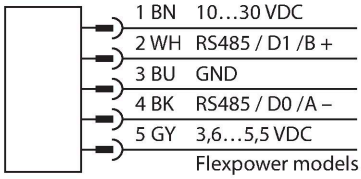
Technical data

Type	DX80N2X1W0P0U
ID	3025663
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	
Electrical data	
runs with battery	ja
Operating voltage	3.6…5.5 VDC
Power-on indication	LED, Green
Mechanical data	
Design	Rectangular, DX80

Features

- Internal antenna
- Integrated signal strength indicator
- Configuration via DIP switch
- Deterministic data transfer
- Frequency hopping FHSS
- Time Division Multiplex Access TDMA
- Transmission power: 63 mW, 18 dBm conducted, ≤ 20 dBm EIRP
- Internal battery
- Integrated Li-Ion D-cell, 3.6 VDC, 19000 mAh
- Integrated ultrasonic sensor

Wiring diagram



Functional principle

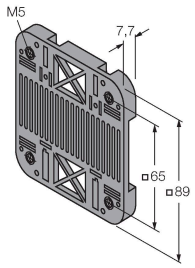
The DX80 system forms a radio-based network for wireless, bidirectional transmission of sensor signals in a star topology. It consists of a gateway that transmits the I/O signals to the control system and to as many as 47 nodes, with each node taking up to 12 sensors/actuators. The system is configured via the gateway with the included software. You can supply different components with DC voltage either via the power grid or self-sufficiently via battery or solar cell. Depending on the type of gateway used, simultaneous transmission of different measured and switching values is possible as well as communication via RS485 interface.
Norms:
FCC-ID UE300DX80-2400- This device complies with FCC para. 15, subpara. C, 15.247
ETSI/EN: In compliance with EN 300 328: V2.2.2 (2019-02)
IC: 7044A-DX8024
Radiation protection 10 V/m for 80–2700 MHz acc. to EN 61000-6-2
Shock and vibration resistance: IEC 68-2-6 and IEC 68-2-7

Technical data

Dimensions	127 x 80.8 x 57 mm
Housing material	Plastic, PC
Antenna connection	Internal (wire loop)
Ambient temperature	-40…+85 °C
Relative humidity	0…95 %
Protection class	IP67
Tests/approvals	

Accessories

SMBDX80DIN	3077161



Mounting panel for DIN rail, suited for CP80, DX80, K80, Q80, operating temperature: -20…90 °C

BWA-BATT-001	3078261

Lithium-ion battery, D cell, 3.6 VDC, 19,000 mAh, American supplier, GGV UN3090/CL9

Keine Maßzeichnung vorhanden!

No drawing available!

DX80N2X1W0P0U| 18-11-2023 05-10 | Technical modifications reserved