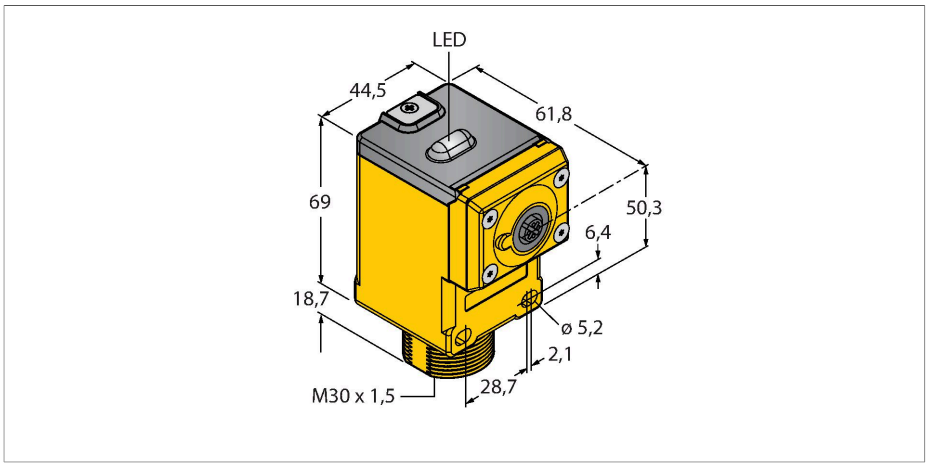
DX80N2Q45RD
Radio Transmission System – Star Topology
Node for Connecting External Sensors



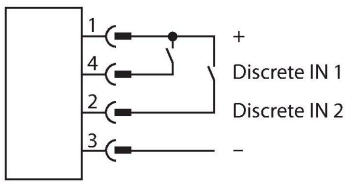
Technical data

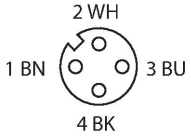
Type	DX80N2Q45RD
ID	3028427
Wireless data	
Type of radio	short-range
Installation	stationary
Topology	Star topology
Device type	Wireless sensor
Frequency band	2.4-GHz ISM band
Frequency range	2.402…2.483 GHz
Number of radio channels	27
Channel width	2 MHz
Spread spectrum technology	FHSS (Frequency Hopping Spread Spectrum)
Single-Carrier Residence Time	7.8 ms
Response time typical	< 250 ms
Output power ERP	18 dB/65 mW
Output power EIRP	18 dB/65 mW
Range	1000000 mm
I/O data	
Number of channels	2 or 1
Input type	Potential-free contacts or NAMUR
Electrical data	
Runs with battery	Yes
Operating voltage U_B	3.6…5.5 VDC
DC rated operating current I_e	≤ 0.1 mA
Excess gain indication	LED, red

Features

- Protection class IP67
- Mechanical screw-in thread M30 × 1.5
- Connection via M12 × 1 female connector, 4-pin
- 2.4 GHZ frequency band
- Frequency hopping FHSS
- Time division multiplex access - TDMA
- Operating voltage: 3.6…5.5 VDC
- Current consumption: ≤ 100 µA
- Supply via 2x 3.6 V Li-ion AA batteries, supplied with the device
- FCC-ID UE300DX80-2400 This device complies with FCC para. 15, sub para. C, 15.247 ETSI/EN: In compliance with EN 300 328: V1.7.1 (2006-05)IC: 7044A-DX8024
- Radiation protection 10 V/m for 80-2700 MHz acc. to EN 61000-6-2

Wiring diagram





Functional principle

Q45 sensors and DX80 gateway are networked in star topology. Thanks to the

Technical data

Power-on indication	LED, Green
Mechanical data	
Design	Rectangular, Q45
Dimensions	66.5 x 44.5 x 97.1 mm
Housing material	Plastic, PBT Lexan, Yellow
Electrical connection	Connector, M12 × 1, 4-pin
Antenna connection	Internal (wire loop)
Ambient temperature	-40…+70 °C
Storage temperature	-40…+70 °C
Relative humidity	0…90 %
Protection class	IP67
Tests/approvals	
MTTF	67 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cURus, CSA

Accessories

BWA-BATT-006	3017987	Lithium-ion battery, 3.6 VDC, 2400 mAh, AA, GGV UN3090/CL9

integrated battery, they are the first, fully self-sufficiently operating sensors worldwide. No further wiring is necessary. Different types are available. Depending on the type of operation, the battery may last several years. They can be easily integrated into an existing DX80 network.