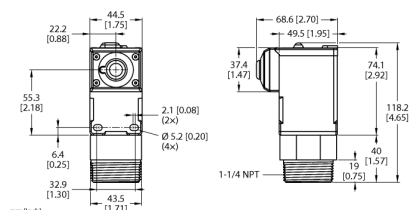


Radio Transmission System Base Unit for Serial Sensors Node with Integrated Sensor DX80N2Q45UAA



Type	DX80N2Q45UAA
ID	3805966

Wireless data	
Type of radio	short-range
Installation	stationary
Topology	Star topology
Function	Proximity switch
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

I/O data	
Number of channels	1/1
Input type	Discrete (sensor)/thermistor
Number of channels	4
Output type	4-color LED indicator
Communication protocol	1-wire-serial

Electrical data	
Runs with battery	Yes
Operating voltage U_s	3.6...5.5 VDC
DC rated operating current I_s	≤ 0.1 mA
Excess gain indication	LED, red
Power-on indication	LED, Green

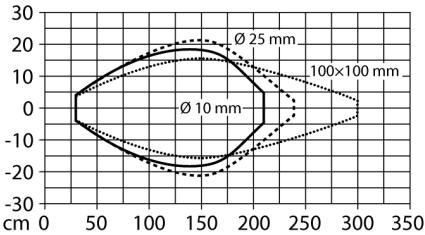
- Protection class IP67
- Mechanical screw-in thread, 1 1/4" NPT
- Integrated ultrasonic scanner, frequency 114 kHz, range 3 m and multi-color display lights
- 2.4 GHz frequency band
- Frequency hopping FHSS
- Time division multiplex access - TDMA
- Operating voltage: 3.6...5.5 VDC
- Current consumption: ≤ 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

Functional principle

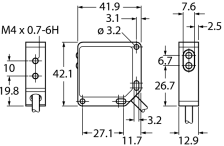
The Q45 wireless nodes can be integrated into a DX80 wireless network in star topology. Thanks to the integrated battery, these devices work fully autonomously and can be connected directly with any DX80 gateway or DXM controller. Some models include a sensor element or can be connected to external sensors or other transducers. Depending on the type of operation, the battery service life may last several years.

Conforms to EN 300 328: V2.2.2 (2019-02)

Mechanical data	
Design	Rectangular, Q45
Housing material	Plastic, PBT, Black
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

Type code	Ident no.		Dimension drawing
QM42VT1	3094597	Vibration and temperature sensor, metal case, protection class IP67, serial interface	
BWA-BATT-006	3017987	Lithium-ion battery, 3.6 VDC, 2400 mAh, AA, GGV UN3090/CL9	