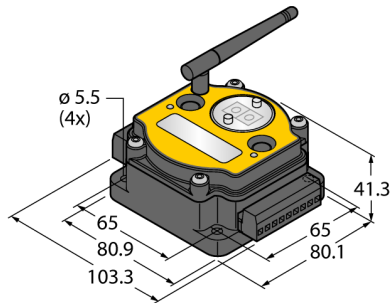


**Radio Transmission System
Star Topology
node (FlexPower)
DX80N2X2S0P0RC**



- External antenna (RG58 RP-SMA connection)
- External terminal strip
- 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
- External battery supply or 10...30VDC
- Inputs: 4 x RTD (PT100 / PT1000)

Type designation	DX80N2X2S0P0RC
Ident no.	3083016
Type of radio	short-range
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)
Relative level of spurious	-20 dB
Single-Carrier Residence Time	7.8 ms
Response time typical	< 1000 ms
Max. range	≤ 3200 m
Output power	18 dB / 65 mW ERP
Output power	20 dB / 100 mW EIRP
Number of channels	4
Input type	RTD
Number of channels	-
Output type	-
Design	DX80
Design	Rectangular
Housing material	Plastic, PC
Ambient temperature	-20...+80 °C
Protection class	IP20
Dimensions	80.1 x 103.3 x 41.3 mm
Operating voltage	3.6...≤ 5.5 VDC
Power-on indication	LED,Green
Approvals	CE CSA ATEX
Device marking	II 3 G Ex nA IIC T4 Gc
Ex approval acc. to conformity certificate	LCIE 10 ATEX 1012 X

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 control system and to as many as 47 nodes, with each node taking maximally 12 sensors/actuators. The system is configured via the gateway with the included software. You can feed different components with DC power either via mains supply or self-sufficiently via battery or solar cell. Depending on the type of gateway used, simultaneous transfer of different measured and switching values is possible as well as communication via RS485 interface.

Norms:

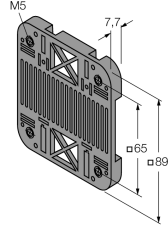
FCC-ID UE300DX80-2400. This device complies with FCC para.15, subpara. C, 15.247
 ETSI/EN: In compliance with EN 300 328: V1.8.1 (2014-04)
 IC: 7044A-DX8024
 Radiation protection 10V/m for 80-2700 MHz acc. to EN 61000-6-2
 Shock and vibration resistant: IEC 68-2-6 and IEC 68-2-7

**Radio Transmission System
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DX80N2X2S0P0RC**

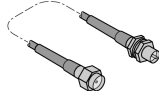
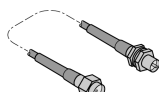
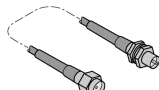
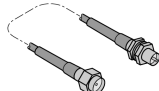
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Industrial
Automation

Accessories

Type code	Ident no.	Description	
SMBDX80DIN	3077161	Mounting panel for DIN rail, suited for CP80, DX80, K80, Q80, operating temperature. -20...+90°C	

Wiring accessories

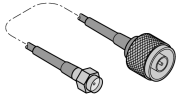
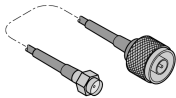
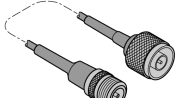
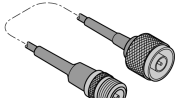
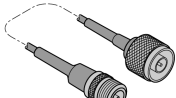
Type code	Ident no.	Description	
BWC-LMRSFRPB	3079296	Surge protection, bulkhead fitting, RP-SMA type	
BWC-LFNBMN	3078548	Surge protection, bulkhead fitting, N-type	
BWC-1MRSFRSB0.2	3078544	Antenna extension, RP-SMA on RP-SMAF bulkhead fitting, 0.2m, RG58, loss 1.05 dB/m	
BWC-1MRSFRSB1	3078337	Antenna extension, RP-SMA on RP-SMAF bulkhead fitting, 1 m, RG58, loss 1.05 dB/m	
BWC-1MRSFRSB2	3078338	Antenna extension, RP-SMA on RP-SMAF bulkhead fitting, 2m, RG58, loss 1.05 dB/m	
BWC-1MRSFRSB4	3077488	Antenna extension, RP-SMA on RP-SMAF bulkhead fitting, 4m, RG58, loss 1.05 dB/m	

**Radio Transmission System
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DX80N2X2S0P0RC**

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Industrial
Automation

Wiring accessories

Type code	Ident no.	Description	
BWC-1MRSMN05	3077486	Antenna extension, RP-SMA on N-male, 0.5 m, RG58, loss 0.56 dB/m	
BWC-1MRSMN2	3077820	Antenna extension, RP-SMA on N-male, 2m, RG58, loss 0.56 dB/m	
BWC-4MNFN3	3077489	Antenna extension, N-male on N-female, 3m, LMR400, coaxial, loss 0.22 dB/m	
BWC-4MNFN6	3077490	Antenna extension, N-male on N-female, 6m, LMR400, coaxial, loss 0.22 dB/m	
BWC-4MNFN15	3077821	Antenna extension, N-male on N-female, 15 m, LMR400, coaxial, loss 0.22 dB/m	

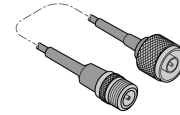
**Radio Transmission System
Star Topology
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DX80N2X2S0P0RC**

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Industrial
Automation

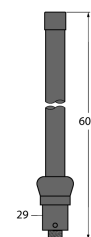
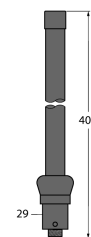
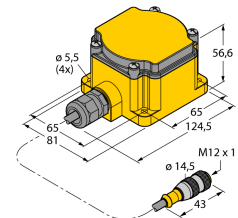
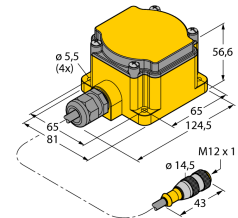
Wiring accessories

Type code	Ident no.	Description
BWC-4MNFN30	3077822	Antenna extension, N-male on N-female, 30m, LMR400, coaxial, loss 0.22 dB/m



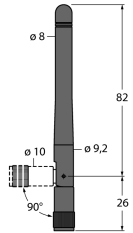
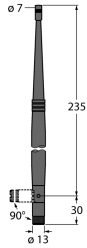
Function accessories

Type code	Ident no.	Description
DX81-LITH	3086016	Battery Case incl. XL-205F Battery
DX81-LITH-NB	3086018	Battery case; Recommended Battery XL-205F
BWA-206-A	3081081	External antenna 6 dBi, N-female
BWA-208-A	3081080	External antenna 8.5 dBi, N-female



Radio Transmission System
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 DX80N2X2S0P0RC

Function accessories

Type code	Ident no.	Description	
BWA-202-C	3077816	Internal antenna 2 dBi, RP-SMA male, standard	
BWA-205-C	3077817	Internal antenna 5 dBi, RP-SMA male	
BWA-207-C	3077818	Internal antenna 7 dBi, RP-SMA male	