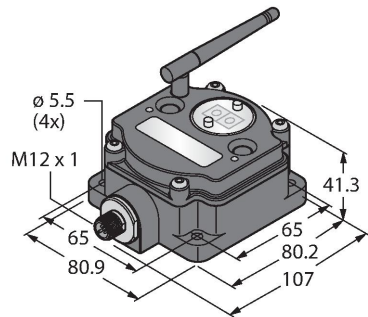


DX80SR2M-H

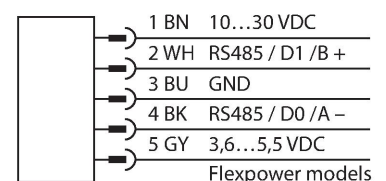
Radio Transmission System – Serial Data Transmission Serial Radio



Features

- External antenna (RG58 RP-SMA connection)
- Integrated signal strength indicator
- Configuration via DIP switch
- Topology selectable via DIP switch
- Repeater for extension of network
- Deterministic data transfer
- Frequency hopping FHSS
- Time Division Multiplex Access TDMA
- Transmission power: 63 mW, 18 dBm conducted, ≤ 20 dBm EIRP
- Power consumption: < 60 mA at 24 VDC

Wiring diagram



Functional principle

The DX80 serial radios transfer data via RS232 or RS485 interface. The following choices are possible: Point-to-Point, star, or tree. Each network consists of a master and at least one slave. Repeaters extend the radio range. The device type is determined via internal DIP-switches. The baud rate is also adjustable, and can be up to 115.2 kBd. There is no software required to connect and adjust the devices.

Norms:

FCC-ID UE300DX80-2400. This device complies with FCC para.15, subpara. C, 15.247
ETSI/EN: In compliance with EN 300 328: V1.7.1 (2006-05)
IC: 7044A-DX8024

Technical data

Type	DX80SR2M-H
ID	3044063
Wireless data	
Type of radio	short-range
Installation	stationary
Topology	Star topology
Function	Point-to-point
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	< 62.5 ms
Output power ERP	18 dB/65 mW
Output power EIRP	20 dB/100 mW
Range	3200000 mm
I/O data	
Number of channels	-
Input type	-
Number of channels	-
Output type	-
Communication protocol	Modbus RTU RS232

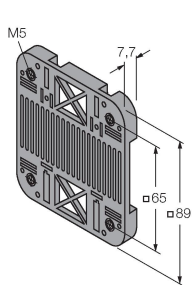
Technical data

RS485	
Electrical data	
runs with battery	nein
Operating voltage	10...30 VDC
DC rated operational current	≤ 60 mA
Power-on indication	LED, Green
Mechanical data	
Design	Rectangular, DX80SR
Dimensions	107 x 80.9 x 41.3 mm
Housing material	Plastic, PC
Antenna connection	RP-SMA female connector
Ambient temperature	-40...+85 °C
Relative humidity	0...95 %
Protection class	IP67
Tests/approvals	
Approvals	ATEX II 3 G

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

Accessories

SMBDX80DIN	3077161
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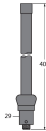
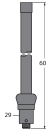
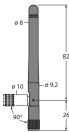
Mounting panel for DIN rail, suited for CP80, DX80, K80, Q80, operating temperature: -20...90 °C

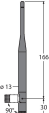
Accessories

Dimension drawing	Type	ID	
Keine Maßzeichnung vorhanden! No drawing available!	BWC-LMRSFRPB	3079296	Surge protection, bulkhead fitting, RP-SMA 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

Dimension drawing	Type	ID	
	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
	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 connector to N female connector, cable length: 3 m, 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
	BWC-4MNFN30	3077822	Antenna extension, N-male on N-female, 30m, LMR400, coaxial, loss 0.22 dB/m

Accessories

Dimension drawing	Type	ID	
	BWA-2O6-A	3081081	External antenna 6 dBi, N-female
	BWA-2O8-A	3081080	External antenna 8.5 dBi, N-female
	BWA-2O2-C	3077816	Internal antenna 2 dBi, RP-SMA male, standard

Dimension drawing	Type	ID	
	BWA-205-C	3077817	Internal antenna 5 dBi, RP-SMA male
	BWA-207-C	3077818	Internal antenna 7 dBi, RP-SMA male