

X20BM21

Data sheet 2.24 (February 2025)



Publishing information

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Version history

B&R makes every effort to keep documents as current as possible. The most current versions are available for download on the B&R website (www.br-automation.com).

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1 General information

1.1 Other applicable documents

For additional and supplementary information, see the following documents.

Other applicable documents

Document name	Title
MAX20	X20 System user's manual

1.2 Order data

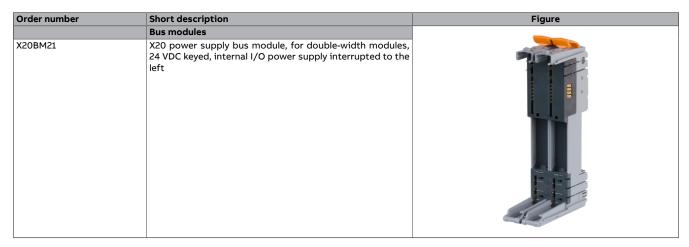


Table 1: X20BM21 - Order data

1.3 Module description

The bus module serves as a basis for all double-width X20 I/O modules. The internal I/O supply is isolated to the left. This allows the bus module to be used to set up a separate voltage group if the X20BT9100 bus transmitter is used for the supply.

- · For creating voltage groups
- The internal I/O supply is isolated to the left

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2 Technical description

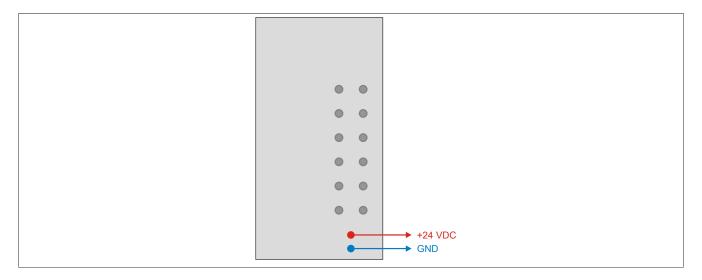
2.1 Technical data

Order number	X20BM21
Short description	
Bus module	Power supply bus module, for double-width modules, 24
	VDC keyed, internal I/O power supply interrupted to the left
General information	
Power consumption	
Bus	0.13 W
Internal I/O	-
Additional power dissipation caused by actuators (resistive) [W]	-
Certifications	
CE	Yes
UKCA	Yes
ATEX	Zone 2, II 3G Ex nA nC IIA T5 Gc IP20, Ta (see X20 user's manual) FTZÚ 09 ATEX 0083X
UL	cULus E115267 Industrial control equipment
HazLoc	cCSAus 244665 Process control equipment for hazardous locations Class I, Division 2, Groups ABCD, T5
DNV	Temperature: B (0 to 55°C) Humidity: B (up to 100%) Vibration: B (4 g) EMC: B (bridge and open deck)
CCS	Yes
LR	ENV1
KR	Yes
ABS	Yes
BV	EC33B Temperature: 5 - 55°C Vibration: 4 g EMC: Bridge and open deck
KC	Yes
I/O power supply	
Nominal voltage	24 VDC
Permissible contact load	10 A
Operating conditions	
Mounting orientation	
Horizontal	Yes
Vertical	Yes
Installation elevation above sea level	
0 to 2000 m	No limitation
>2000 m	Reduction of ambient temperature by 0.5°C per 100 m
Degree of protection per EN 60529	IP20
Ambient conditions	
Temperature	
Operation	
Horizontal mounting orientation	-25 to 60°C
Vertical mounting orientation	-25 to 50°C
Derating	-
Storage	-40 to 85°C
Transport	-40 to 85°C
Relative humidity	
Operation	5 to 95%, non-condensing
Storage	5 to 95%, non-condensing
Transport	5 to 95%, non-condensing
Mechanical properties	
Mechanical properties	

Table 2: X20BM21 - Technical data

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2.2 Voltage routing



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