

X20IF2792

Data sheet 2.30 (February 2025)



Publishing information

B&R Industrial Automation GmbH B&R Strasse 1 5142 Eggelsberg Austria

Telephone: +43 7748 6586-0

Fax: +43 7748 6586-26

office@br-automation.com

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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

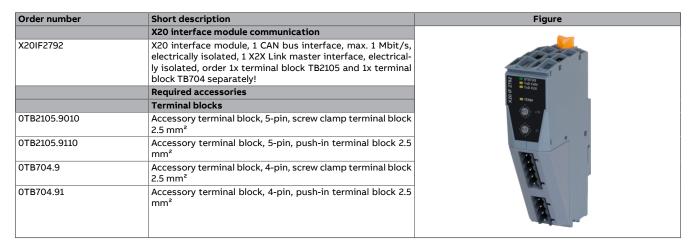


Table 1: X20IF2792 - Order data

1.3 Module description

The interface module is used for application-specific expansion of the X20 controllers. It is equipped with an X2X Link interface and a CAN bus interface.

- X2X Link connection
- · CAN bus connection
- · Integrated terminating resistor



Information:

This module does not support CAN RTR messages with extended CAN identifiers (29-bit) (memory/performance bottleneck).

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2 Technical description

2.1 Technical data

Order number	X20IF2792			
Short description				
Communication module	1x X2X Link master, 1x CAN bus			
General information	,			
B&R ID code	0x1F26			
Status indicators	Module status, data transfer, terminating resistor			
Diagnostics	Troduct Status, data statistics, communing resistor			
Module status	Yes, using LED status indicator			
Data transfer	Yes, using LED status indicator			
Terminating resistor	Yes, using LED status indicator			
Power consumption	1.25 W (rev. <e0: 1.51="" td="" w)<=""></e0:>			
Additional power dissipation caused by actua-				
tors (resistive) [W]				
Certifications				
CE	Yes			
UKCA	Yes			
ATEX	Zone 2, II 3G Ex nA nC IIA T5 Gc			
ALEX	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			
KC	Yes			
Interfaces				
Interface IF1				
Fieldbus	X2X Link master			
Variant	4-pin male multipoint connector			
Number of stations	Max. 253			
Internal bus power supply	No			
Network topology	Line			
Distance between 2 stations	Max. 100 m			
Bus terminating resistor	Internal			
Interface IF2				
Signal	CAN bus ¹⁾			
Variant	5-pin male multipoint connector			
Max. distance	1000 m			
Transfer rate	Max. 1 Mbit/s			
Terminating resistor	Integrated in module			
Controller	SJA 1000			
Electrical properties				
Electrical isolation	PLC isolated from X2X Link (IF1) and CAN (IF2) and interfaces isolated from each other			
Operating conditions	1 20 1501atea 110111 / 12/ and 0 / 11 (11 2) and 11 (11 2)			
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			
	.0.000			

Table 2: X20IF2792 - Technical data

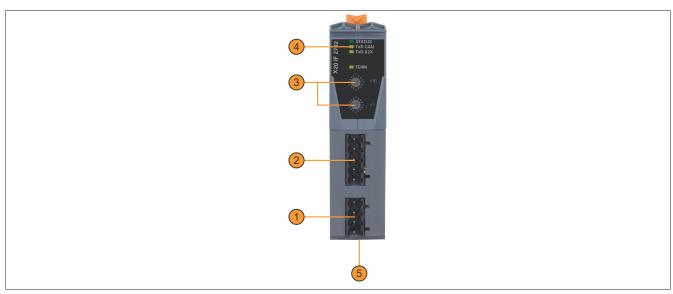
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Order number	X20IF2792				
Relative humidity					
Operation	5 to 95%, non-condensing				
Storage	5 to 95%, non-condensing				
Transport	5 to 95%, non-condensing				
Mechanical properties					
Note	Order 1x terminal block TB704 and 1x terminal block TB2105 separately.				
Slot	In the X20 PLC				

Table 2: X20IF2792 - Technical data

1) This CAN bus interface can be configured as a CANopen master in Automation Studio 3.0 and later.

2.2 Operating and connection elements



1	IF1 - X2X Link	2	IF2 - CAN bus
3	Node number switches	4	LED status indicators
5	Switch for terminating resistor (CAN bus) on the bottom of the	6	-
	module		

2.2.1 LED status indicators

Figure	LED	Color	Status	Description		
	STATUS	Green	On	Interface module active		
		Red	On	The controller is starting up.		
	TxD CAN	Yellow	On	The module is sending data via the CAN bus interface		
STATUS	TxD X2X	Yellow	On	Module sending data via the X2X Link interface		
25 ■ TxD CAN 1 ■ TxD X2X	TERM	Yellow	On	The integrated terminating resistor for the CAN bus interface is turned on		
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2.2.2 CAN bus node number



The node number for the CAN bus interface (IF2) is set with the two hex switches.

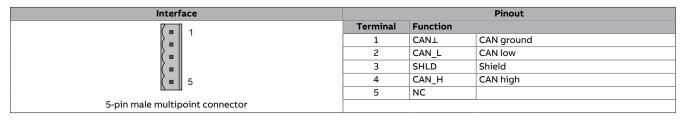
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2.2.3 X2X Link interface (IF1)

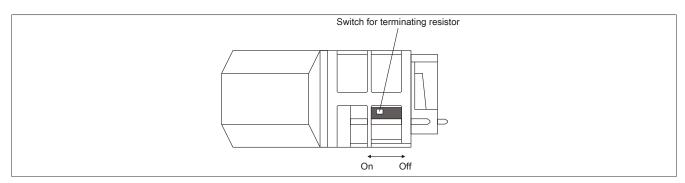
Interface	Pinout			
	Terminal	Function		
	1	X2X		
	2	X2XT		
	3	X2X\		
	4	SHLD	Shield	
4-pin male multipoint connector				

2.2.4 CAN bus interface

The interface is a 5-pin multipoint connector. Terminal block 0TB2105 must be ordered separately.



2.2.5 Terminating resistor



The interface module has an integrated terminating resistor for the CAN bus interface. It can be turned on and off with a switch on the bottom of the housing. An active terminating resistor is indicated by the "TERM" LED.

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3 Commissioning

3.1 Firmware

The module comes with preinstalled firmware. The firmware is part of the Automation Studio project. The module is automatically brought up to this level.

A hardware upgrade must be performed to upgrade the firmware included in Automation Studio (see Help "Project management - Workspace - Upgrades" in Automation Help).

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