X20IF1091

1 General information

The interface module can be used to expand the X20 CPU for specific applications. It is equipped with an X2X Link master interface.

- X2X Link connection

2 Order data

| Model number	Short description	Figure
	X20 interface module communication	
X20IF1091	X20 interface module, 1 X2X Link master interface, electrically isolated, order 1x TB704 terminal block separately	
	Required accessories	
	Terminal blocks	
0TB704.9	Accessory terminal block, 4-pin, screw clamps 2.5 mm²	
0TB704.91	Accessory terminal block, 4-pin, cage clamps 2.5 mm²	

Table 1: X20IF1091 - Order data

3 Technical data

Model number	X20IF1091
Short description	
Communication module	1x X2X Link master
General information	
B&R ID code	0x1F24
Status indicators	Module status, data transfer
Diagnostics	
Module status	Yes, using status LED
Data transfer	Yes, using status LED
Power consumption	0.97 W
Additional power dissipation caused by the actuators (resistive) [W]	-
Electrical isolation	
PLC - IF1	Yes
Certification	
CE	Yes
KC	Yes
UL	cULus E115267 Industrial Control Equipment
HazLoc	cCSAus 244665 Process Control Equipment for Hazardous Locations Class I, Division 2, Groups ABCD, T5
ATEX	Zone 2, II 3G Ex nA nC IIA T5 Gc IP20, Ta = 0 - max. 60°C FTZÚ 09 ATEX 0083X
GOST-R	Yes
Interfaces	
IF1 interface	
Fieldbus	X2X Link master
Design	4-pin male multipoint connector
Number of stations	Max. 253
Bus terminating resistor	Internal
Internal bus supply	No
Network topology	Line
Distance between 2 stations	Max. 100 m
Operating conditions	
Mounting orientation	
Horizontal	Yes
Vertical	Yes
Installation at elevations above sea level	
0 to 2000 m	No limitations
>2000 m	Reduction of ambient temperature by 0.5°C per 100 m
EN 60529 protection	IP20
Environmental conditions	
Temperature	
Operation	
Horizontal installation	-25 to 60°C
Vertical installation	-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 characteristics	
Note	Order 1x TB704 terminal block separately
Slot	In X20 CPU

Table 2: X20IF1091 - Technical data

4 LED status indicators

Figure	LED	Color	Status	Description
	STATUS	Green	On	Interface module active
		Red	On	CPU starting up
	X2X	Yellow	On	Module sending data via the X2X Link interface

5 Operating and connection elements

LED status indicators
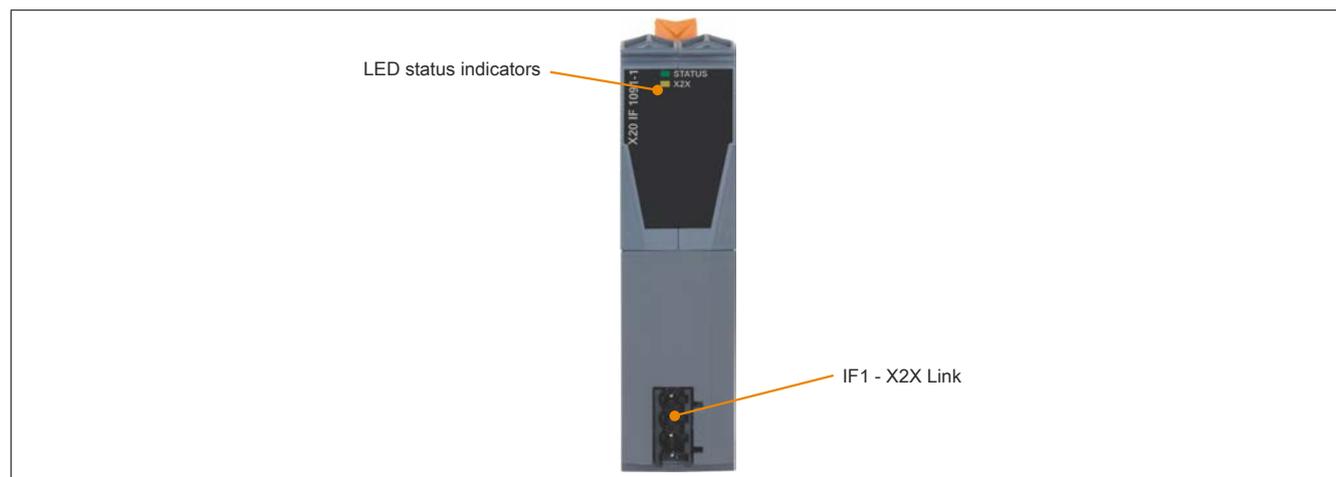
IF1 - X2X Link

6 X2X Link interface (IF1)

Interface	Pinout		
	Terminal	**Function**	
1	1	X2X	
	2	X2X⊥	
4	3	X2X\	
	4	SHLD	Shield
4-pin male multipoint connector			
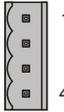
7 Firmware

The module comes with preinstalled firmware. The firmware is a component of Automation Studio. The module is updated to this version automatically.

To update the firmware included in Automation Studio, the hardware must be upgraded (see "Project management" / "Automation Studio upgrade" in Automation Help).