X20IF1065

1 General information

The interface module can be used to expand the X20 CPU for specific applications. It is equipped with a PROFIBUS DP V1 slave interface.

- PROFIBUS DP V1 slave connection

2 Order data

Model number	Short description	Figure
	X20 interface module communication	
X20IF1065	X20 interface module, 1 PROFIBUS DP V1 slave interface, max. 12 Mbit/s, electrically isolated	
	Optional accessories	
	Infrastructure components	
0G1000.00-090	Bus connector, RS485, for PROFIBUS networks	

Table 1: X20IF1065 - Order data

3 Technical data

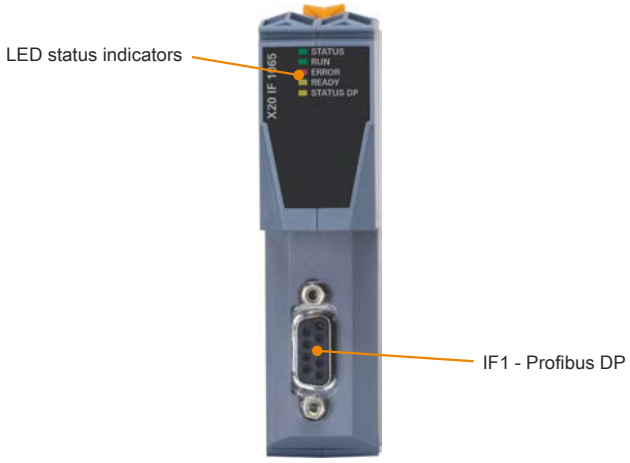
Model number	X20IF1065
Short description	
Communication module	1x PROFIBUS DP V0/V1 slave
General information	
B&R ID code	0xA4C6
Status indicators	Module status, bus status
Diagnostics	
Module status	Yes, using status LED and software
Bus status	Yes, using status LED and software
Power consumption	1.4 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	PROFIBUS DP V0/V1 slave
Design	9-pin female DSUB connector
Max. distance	1200 m
Transfer rate	Max. 12 Mbit/s
Terminating resistor	External T-connector (0G1000.00-090)
Controller	EC1
Memory	8 kB SDRAM
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	0 to 55°C
Vertical installation	0 to 50°C
Derating	-
Storage	-25 to 70°C
Transport	-25 to 70°C
Relative humidity	
Operation	5 to 95%, non-condensing
Storage	5 to 95%, non-condensing
Transport	5 to 95%, non-condensing
Mechanical characteristics	
Slot	In X20 CPU

Table 2: X20IF1065 - Technical data

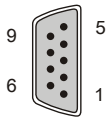
4 LED status indicators

Figure	LED	Color	Status	Description
	STATUS	Green	On	Interface module active
		Red	On	CPU starting up
	RUN	Green	On	Communication running
			Cyclic blinking	Communication stopped
			Irregular blinking	Missing or faulty configuration
			Off	No communication
	ERROR	Red	On	PROFIBUS error
			Off	No error
	READY	Yellow	On	Module ready
			Cyclic blinking	Bootstrap loader active
			Irregular blinking	Hardware or system error
			Off	Hardware defect
	STATUS DP	Yellow	On	Sending data or token
			Off	No token

5 Operating and connection elements



6 PROFIBUS DP interface

Interface	Pinout		
	Pin	RS485	
 9-pin female DSUB connector	1	Reserved	
	2	Reserved	
	3	RxD/TxD-P	Data[1]
	4	CNTR-P	Transmit enable
	5	DGND	Electrically isolated supply
	6	CP	Electrically isolated supply
	7	Reserved	
	8	RxD/TxD-N	Data\[2]
	9	CNTR-N	Transmit enable\
	CNTR ... Directional switch for external repeater		

1) Cable color: Red
2) Cable color: Green

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).