X20(c)IF1030

1 General information

The interface module can be used to expand the X20 CPU for specific applications. It is equipped with an RS485/RS422 interface.

RS485/RS422 connection

2 Coated modules

Coated modules are X20 modules with a protective coating for the electronics component. This coating protects X20c modules from condensation and corrosive gases.

The modules' electronics are fully compatible with the corresponding X20 modules.

For simplification purposes, only images and module IDs of uncoated modules are used in this data sheet.

The coating has been certified according to the following standards:

Condensation: BMW GS 95011-4, 2x 1 cycle

Corrosive gas: EN 60068-2-60, method 4, exposure 21 days







3 Order data

Model number	Short description	Figure
	X20 interface module communication	
X20IF1030	X20 interface module, 1 RS422/485 interface, max. 115.2 kbit/s, electrically isolated	
X20clF1030	X20 interface module, coated, 1 RS422/485 interface, max. 115.2 kbit/s, electrically isolated	
	Optional accessories	
	Infrastructure components	
0G1000.00-090	Bus connector, RS485, for PROFIBUS networks	

Table 1: X20IF1030, X20cIF1030 - Order data

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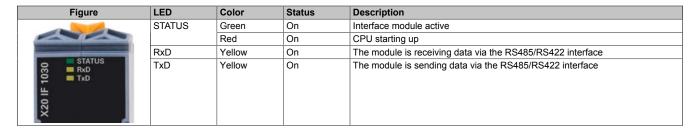
4 Technical data

Model number	X20IF1030	X20cIF1030	
Short description			
Communication module	1x RS48	5/RS422	
General information			
B&R ID code	0x1F28	0xE233	
Status indicators	Module status		
Diagnostics	modulo diatao	, data transfer	
Module status	Voc. using	etatus I ED	
Data transfer	Yes, using status LED		
	Yes, using status LED 0.42 W		
Power consumption	0.42	2 VV	
Additional power dissipation caused by actuators (resistive) [W]	-	•	
Certifications			
CE	V		
	Yea		
KC	Yes	-	
EAC	Ye		
UL	cULus E115267		
Industrial control equipment		• •	
HazLoc	cCSAus		
	Process control equipment for hazardous locations		
	Class I, Division 2,		
ATEX		·	
ALEX	Zone 2, II 3G Ex nA nC IIA T5 Gc IP20, Ta (see X20 user's manual)		
	FTZÚ 09 ATEX 0083X		
DNV GL	Temperature: B (0 - 55°C)		
	Humidity: B (up to 100%)		
	Vibration		
	EMC: B (bridge and open deck)		
LR	EN	V1	
KR	Ye	es	
Interfaces			
Interface IF1			
Signal	RS485/	/RS422	
Variant	9-pin female D	SUB connector	
Max. distance	120		
Transfer rate	Max. 115.2 kbit/s		
FIFO	16 bytes in transmit and receive direction		
Terminating resistor	External T-connector (0G1000.00-090)		
Controller	UART type 16C550 compatible		
Electrical properties	OAIXI type 100	330 compatible	
Electrical properties Electrical isolation	PLC isolated from F	DS405/DS422 (IE1)	
	PLC Isolated IIOIII I	R3403/R3422 (IF1)	
Operating conditions			
Mounting orientation			
Horizontal	Ye		
Vertical	Ye	2 8	
Installation elevation above sea level			
0 to 2000 m	No limi		
>2000 m	Reduction of ambient temp		
Degree of protection per EN 60529	IP:	20	
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		
Relative humidity	+0 10		
Operation	5 to 95%, non-condensing	Up to 100%, condensing	
Storage			
_	5 to 95%, non-condensing 5 to 95%, non-condensing		
Transport	5 to 95%, nor	i-condensing	
Mechanical properties Slot	In VOC ODII	In VOC. CDII	
	In X20 CPU	In X20c CPU	

Table 2: X20IF1030, X20cIF1030 - Technical data

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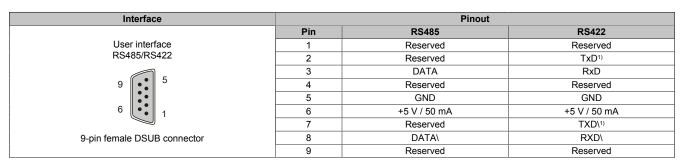
5 LED status indicators



6 Operating and connection elements



7 RS485/RS422 interface (IF1)



¹⁾ RS422 send data is TRISTATE-capable.

8 Firmware

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

To update the firmware contained in Automation Studio, a hardware upgrade must be performed (see "Project management / Workspace / Upgrades" in Automation Help).

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