14.2 IF311 / IF321

14.2.1 Technical Data
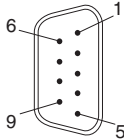
Module ID	IF311	IF321
General Information		
Model Number	7IF311.7	7IF321.7
Short Description	2003 interface module, 1 RS232 interface, screw-in module	2003 interface module, 1 RS485/RS422 interface, electrically isolated, network capable, screw-in module
C-UL-US Listed	Yes	Yes
B&R ID Code	$18	$16
Module Type	B&R 2003 screw-in module	
Slot	CP Interface, slots 1, 2 and 3	
Power Consumption	Max. 0.5 W max. 1.6 W with P120 / P121 [1]	Max. 1.4 W
Standard Communication Interface		
Interface Type	RS232	RS485/RS42 [2]
Electrical Isolation Interface - PCC	No	Yes
Design	9 pin D-type plug	9 pin D-type socket
Handshake Lines	RTS, CTS	——
Baudrate [2]	Max. 115.2 kBaud	Max. 115.2 kBaud
Distance	15 m at 19200 Baud	1200 m (without repeater)
Network Capable	No	Yes
Data Formats Data Bits Parity Stop Bits	5 to 8 yes / no / even / odd 1 / 2	7 / 8 yes / no / even / odd 1 / 2
Mechanical Characteristics		
Dimensions	B&R 2003 screw-in module	

[1] Integrated power supply on pin 4 of the RS232 interface for simple PANELWARE controllers, e.g. P120.
[2] Can be configured using software.
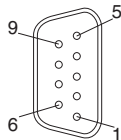
14.2.2 Pin Assignments IF311

9 pin D-type plug

Assignment		
Pin	**RS232**	
1	NC	Reserved
2	RXD	Receive Signal
3	TXD	Transmit Signal
4	+5 VDC /max. 500 mA	Panel Supply
5	GND	Ground
6	NC	Reserved
7	RTS	Request To Send
8	CTS	Clear To Send
9	NC	Reserved

14.2.3 Pin Assignments IF321

9 pin D-type socket

Assignment		
Pin	**RS485**	**RS422**
1	NC	NC
2	NC	TXD
3	DATA	RXD
4	NC	NC
5	GND	GND
6	+5 VDC / 50 mA	+5 VDC / 50 mA
7	NC	n_TXD
8	n_DATA	n_RXD
9	NC	NC

14.2.4 Bus Termination Resistance IF321

The IF321 is equipped with a bus termination resistor. The resistance is turned on and off with a switch.

Off

ON

Using the remote bus connector 0G1000.00-090 is possible.

Wiring remote I/O networks is described in Chapter 2 "Project Planning and Installation", section "Remote I/O Bus".