15.8 IF661

15.8.1 General Information

The IF661 interface module can be operated e.g. in an interface module slot on the CP260 or in the IF260 / IF060.

The module is equipped with an electrically isolated RS485 interface. The PROFIBUS DP format is used as transfer protocol. The B&R 2005 PLC can therefore be connected to a PROFIBUS DP network as a slave.

15.8.2 Order Data

Model Number	Short Description	Image
	Interface Module	
3IF661.9	2005 interface module, 1 RS485 interface, electrically isolated and network capable, transfer protocol: PROFIBUS-DP, CPU and IF-module insert	
	Accessories	
0G1000.00-090	Bus connector, RS485, for PROFIBUS networks, remote I/O	
0AC916.9	Bus termination, RS485, active, for PROFIBUS networks, remote I/O, standard mounting rail installation, supply voltage: 120 / 230 VAC	
Additional accessories see sections "Accessories" and "Manuals".		

Table 338: IF661 order data

15.8.3 Technical Data

Product ID	IF661
General Information	
C-UL-US Listed	Yes
Slot	Insert e.g. in CP260, IF260, IF060
Interface	1 x RS485 (PROFIBUS-DP slave)
Power Consumption 5 V 24 V Total	 Max. 2 W --- Max. 2 W
Application Interface IF1	
Type	RS485
Controller	ASIC SPC3
RAM	1.5 KB
Transfer Protocol	PROFIBUS-DP
Design	9-pin DSUB socket
Electrical Isolation	Yes
Input Filter / Protective Circuit	Yes
Maximum Distance	1,000 m
Maximum Baud Rate Bus Length <100 m Bus Length <200 m Bus Length <400 m Bus Length <1,000 m	 12 MBit/s 1.5 MBit/s 500 kBit/s 187.5 kBit/s
Network Capable	Yes
Bus Termination Resistor	External T-connector

Table 339: IF661 technical data

15.8.4 Operational and Connection Elements

Status LEDs via the interfaces indicate whether data is being received (RXD) or sent (TXD).

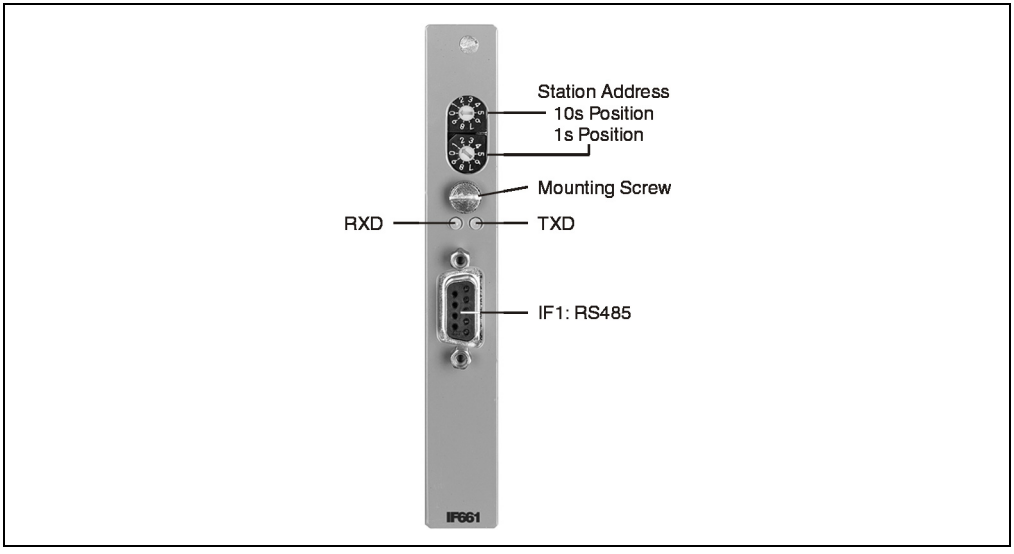


Figure 187: IF661 operational and connection elements

15.8.5 Station Number Dial

The RS485 interface station number is set up using both BCD dials.

15.8.6 RS485 Interface (IF1)

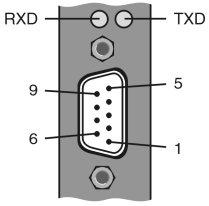
Interface	Description	Pin Assignments		
Application interface RS485  9-pin DSUB socket	The electrically isolated RS485 interface is used for coupling to a PROFIBUS-DP network. LEDs show on the interface whether data is being received (RXD) or sent (TXD). The shield is connected to the DSUB socket's housing. Max. Baud Rate: 12 MBaud	**Pin**	**RS485**	
		1		Shield
		2	NC	
		3	DATA	
		4	CTRL	1)
		5	GND	Electrically Isolated Supply
		6	5 V / 50 mA	Electrically Isolated Supply
		7	NC	
		8	DATA\	
		9	CTRL\	1)

Table 340: IF661 RS485 interface (IF1)

1) Directional switch for external repeater