

D-Sub Service Interface for PROFIBUS DP BC-PBMB-PB-S



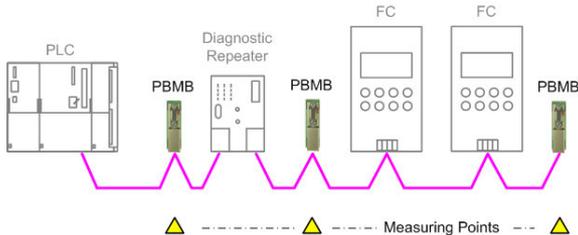
Area of Application

The D-sub service interface provides an access point for testing PROFIBUS networks if the existing D-sub connectors have no service socket or if bus stations are connected via a terminal block.

The service interface can power the terminating resistor of the D-sub connector. You can thus use it as an active bus termination at the beginning or end of the bus. If the PLC allows dropping and adding bus stations on the live bus, you will need this external bus termination to be able to exchange the first and last bus stations without causing problems on the bus.

The D-sub service interface is supplied in a set including an adapter of type PBMB and an 90° angled PROFIBUS connector with screw terminal technology and a switchable terminating resistor.

Example Application

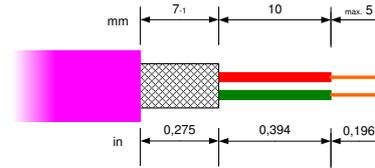


Installation of the PBMB Adapter

The compact unit is rail mounted like a terminal block and supplied with 24 VDC by an external power source via the “+”, “-” and “PE” terminals.

Installation of the PROFIBUS Connector

1. Strip the bus cable to the following dimensions:



2. Open the connector housing. Remove the strain relief and note the mounting direction. Open the screw terminals with a screw driver.
3. Insert the stripped wires into the terminal openings, if possible simultaneously: Red wire into terminal B and green wire into terminal A. At the beginning and end of the bus, always use the two terminals on the left (incoming, arrow towards terminal). Tighten the screw terminals with the screw driver.
4. Install the strain relief. Pay attention to the correct mounting direction. The bare end of the cable shield has to be placed on the circuit board below the strain relief.
5. Close the connector housing. If the outgoing cable entry is unused, close it with the black plastic blanking plug that is included in the set.

Technical Data

Power supply	Input: 18-30 VDC, reverse polarity protected Output: 5 VDC, 100 mA, short-circuit proof
“Power” status LED	Lights up when externally powered with 24 VDC
Ambient temperature	Operation: +20 °C ... + 70 °C
Mounting	DIN rail EN 50022
Dimensions in mm	79 x 23 x 73 mm (H x W x D)
Weight	approx. 76 g
Protection class	IP20
PBMB conformity	CE