

PSI-MOS MPI

PSI-MOS devices in MPI networks

Application note
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1 Description

This application note describes how to use
PSI-MOS-PROFIB devices in MPI networks.

Order No.	Designation	Device	Wavelength, connection	Fiber	Description
2708290	PSI-MOS-PROFIB/FO 660 E	Terminal device	660 nm, FSMA	Polymer, HCS	FO converter with inte- grated optical diagnostics, alarm contact, for PROFIBUS up to 12 Mbps
2708287	PSI-MOS-PROFIB/FO 660 T	T-coupler			
2708274	PSI-MOS-PROFIB/FO 850 E	Terminal device	850 nm, BFOC	MM, HCS glass	
2708261	PSI-MOS-PROFIB/FO 850 T	T-coupler			
2708559	PSI-MOS-PROFIB/FO 1300 E	Terminal device	1300 nm, SC duplex	MM, SM glass	
2708892	PSI-MOS-PROFIB/FO 1300 T	T-coupler			



WARNING:

This application note does **not** replace the device-specific documents.
Please follow the safety notes in the associated package slips and data sheets.



Make sure you always use the latest documentation.
This can be downloaded at phoenixcontact.net/products.

2 MPI network

You can use PSI-MOS-PROFIB devices in MPI networks. You can either select autobaud or set a fixed transmission rate (e.g., 187.5 kbps). The settings for the other DIP switches are dependent on the application. Please also observe the information in the data sheet.

The configuration rules for the MPI network (baud rate, maximum number of devices, etc.) can be found in the Siemens documentation. The configuration rules depend on the MPI hardware used.

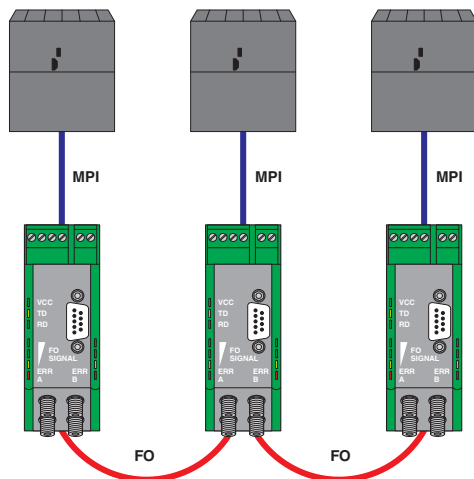


Figure 1 Possible configuration

When connecting an MPI-PC adapter directly to a PSI-MOS device, make sure that the PC adapter is supplied with external voltage separately from the D-SUB connector. The PSI-MOS devices only supply the 5 V auxiliary voltage for active termination at the D-SUB connector.

Use the D-SUB-PROFIBUS fast connectors of type SUBCON to connect the MPI devices quickly and conveniently to the PSI-MOS devices. The connectors are available in a variety of designs:

- SUBCON-PLUS-PROFIB/SC2 (Order No. 2708232), connector with angled cable outlet
- SUBCON-PLUS-PROFIB/PG/SC2 (Order No. 2708245), connector with angled cable outlet and PG interface
- SUBCON-PLUS-PROFIB/AX/SC (Order No. 2744380), connector with straight cable outlet