

General Information

The bus connector connects $\mathsf{PROFIBUS}$ user knots or complete $\mathsf{PROFIBUS}$ net components to the $\mathsf{PROFIBUS}$ line.

Each connector has switchable terminating resistors. Dependent of the type of connector, a PD/diagnosis socket as well as a controller with 4 LED indicators are additionally integrated.

Each connector is identified by a label with its hardware-release and included firmware-version:

H/FFF: H:hardware-release FFF: firmware-version → 5/107: release 5, firmware V1.07

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Features			
Cable diagnosis functions via LEDs			
Switchable terminating resistors			
Integrated controller for transfer rates up to 12Mbit/s			
Metal casing with lose-protected "single-screw-mounting"			\checkmark
Fast connection via insulation cutting clamps		Class 2, Ta: 0°C+60°C	oHS

Diagnosis via LEDs

Switch	PWR	TxD	Term	ERR	Description	
ON/OFF	green	green	green	yellow		
x	•	х	х	x	Power is OK (+5V ±5%)	
x	¢	х	х	x	Power is out of +5V ±5%	
х	\¢	х	х	\	Short-circuit of bus wire possible	
x	х	0	х	x	No bus activity of participant	
х	х	\$	х	х	Bus activity of participant	
х	х	•	х	x	Bus activity, RTS (pin 4) of RS485 is not connected	
OFF	х	х	0	х	Termination is switched off	
OFF	х	х	\ ↓	x	Internal terminating resistor faulty	
ON	х	х	•	х	Termination is activated	
х	х	х	х	0	No errors detected	
OFF	х	\$	0	•	Bus is not terminated	
OFF	х	0	0	•	Bus is open	

on: ● off: ○ blinking (5Hz): ☆ not relevant: x

Switchable terminating resistors

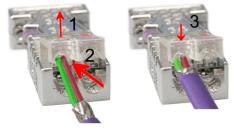


The switchable terminating resistors are activated by a slide switch, easily accessible from both sides right and rear.

Hereby shutoff of the outgoing bus line is possible. Also for testing purposes the following PROFIBUS components connected via "OUT" can be switched off without removing the connector.

Please make sure to terminate the last participants on the bus at both ends and to connect them to the bus cable via "IN".

Connecting the PROFIBUS cable



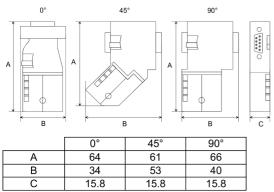
• Measure wire length on template:



- Insert end of cable and push fixing slider as far as it goes
- Rotate stripping tool repeatedly around the cable
- Pull off stripper (in closed state)
- Remove cut-off wire/core insulations remainder
- Loosen the screw
- Lift contact-cover
- Insert both wires into the ducts provided (watch for the correct line color as below!)
- Please take care that you do not cause a short circuit between screen and data lines!
- Close the contact cover
- Tighten screw

Please note: the green line must be connected to A, the red line to B!

Measures in mm:



Technical data	
Power supply	DC 4.75 5.25V
by end device	
Current	10 30mA
PROFIBUS	SubD-male-9pole
Plugging cycles jack	min. 200
Cable diameter	8 mm
Casing	Zinc-Diecast
Degree of protection	IP20
Temperature range	-20°C +75°C
Fixing screws /	4-40 UNC/
max. tightening torque	0.4Nm
Stripping Lengths	
Outside cover/shielding	17mm / 6mm
Connecting technique	Insulation cutting
	clamps
Bus cable	Type A (EN50170)

Note!

Starting with release 5 also highly flexible bus cable may be used: Lapp cable order no.: 2170222, 2170822, 2170322.

Under the web-address https://www.process-informatik.de are product specific documentations or software-driver/-tools available to download. If you have questions or suggestions about the product, please don't hesitate to contact us.

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Menutree Website:

QR-Code Website:

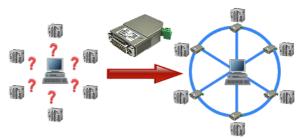
+ Products / docu / downloads + Profibus-Plug-DiagConn PB 45°







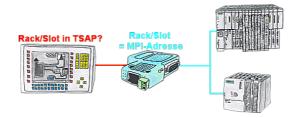
Please make sure to update your drivers before using our products.



Your machines are fully distributed in your company area, it is not always a PC connected with the machine. What could be better than to connect the machines to your company network and backup the data central from one point!

With the option "Communication via S5-LAN++" and the S5-LAN++-modules, you can meet this requirement immediately.

Transformation of Rack/Slot in TSAP to MPI-address



Your panel or visualisation system addresses the used PLC with Rack/Slot in TSAP? No problem, activate this mode in the S7-LAN and you will get actual data from the PLC.