

Diagnostic connector PG/90° screw terminal

Function

The PG / Service interface serves as feedback-free measuring point for measurements with PROTest II / PROFI-TM Professional / PB-INSPEKTOR® and can also be used as programming interface. The plug is completely shielded by the metal-coated casing. The plug for the terminating resistor that is accessible from outside, disconnects the outgoing segment when being in ON position.

The integrated three LEDs are used for the quick diagnosis of the bus status.

Bus connection

- 9-pin sub-D interface
- Screw terminal connection
- 90° cable outlet

Electrical parameters

- Terminating resistor: integrated, can be switched with a sliding switch from outside
- Baud rate: 9.6 kbps to 12 Mbps
- Supply voltage: 4.75 to 5.25 VDC
has to be provided by each PROFIBUS user (Pin 5 GND, Pin 6 +5V)
- Current drain: 35 mA
- Diagnostic display through LED status

Ambient conditions

- Operating temperature: 0 °C to +60 °C
- Transport / storage temperature: -25 °C to +80 °C
- Relative humidity: max. 75 % at a temperature of +25 °C
- Industrial protection: IP20

Design

- Dimensions (H x W x D): 64 x 17 x 40 mm
- Interface: 9-pin sub-D
- Weight: approx. 40 g
- Casing: plastic material metallized

Status display for diagnostic function

| Switch ON/OFF | PWR Green | TxD Green | Term Green | ERR Yellow | Description |
|---------------|-----------|-----------|------------|------------|---|
| x | • | x | x | x | Power is OK (+5V ±5%) |
| x | ✱ | x | x | x | Power is out of (+5V ±5%) |
| x | ✱ | x | x | ✱ | Short-circuit of bus wire possible |
| X | X | ○ | X | X | No bus activity of participant |
| X | X | ✱ | X | X | Bus activity of participant |
| X | X | • | X | X | Bus activity, RTS (pin 4) of RS485 is not connected |
| OFF | X | X | ○ | X | Termination is switched off |
| OFF | X | X | ✱ | X | Internal terminating resistor faulty |
| ON | X | X | • | X | Termination is activated |
| X | X | X | X | ○ | No errors detected |
| OFF | X | ✱ | ○ | • | Bus is not terminated |
| OFF | X | ○ | ○ | • | Bus is open |

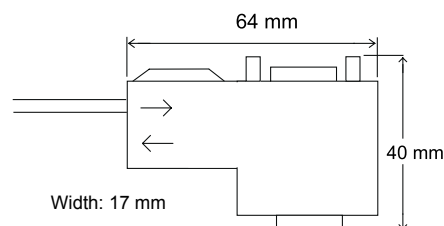
ON: • OFF: ○ flashing (5Hz): ✱ extraneous: x

CE mark

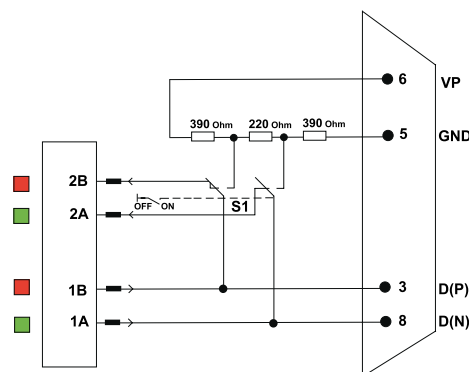
Plugs are passive components and are not subject to the CE mark system pursuant to EU Directives.



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Engineering drawing



Functional diagramFunctionsschaltbild

Ordering details

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Art. No.

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