Diagnostic connector axial Fast Connect

Function

The PG/Service interface serves as feedback-free measuring point for measurements with PROFtest II XL/PROFI-TM Professional and PB-INspektor® NT can also be used as programming interface. The plug is completely shielded by the metal-coated casing.

The plug for the terminating resistor is accessible from outside, disconnects the outgoing segment when being in ON position. The integrated 4 LEDs (Power, TxD, Termination, Error) serve for a quick diagnosis of the bus status. With the Error LED, for example reflections and missing terminating resistors are signalled. The design meets the Fast Connect requirement.

Bus connection

- 9-pin sub-D interface
- Insulation piercing terminal (suitable for Fast Connect cable)
- Axial 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: 10 ... 30 mA
- Diagnostic display through LED status

Ambient conditions

- Operating temperature: -20 °C to +75 °C
- Industrial protection: IP20

Design

- Dimensions (H x W x D):   34 x 15,8 x 64 mm
- Interface: 9-pin sub-D
- Weight: approx. 80 g
- Casing: zinc die cast
- Max. fastening torque: 0,02 Nm

Status display for diagnostic function

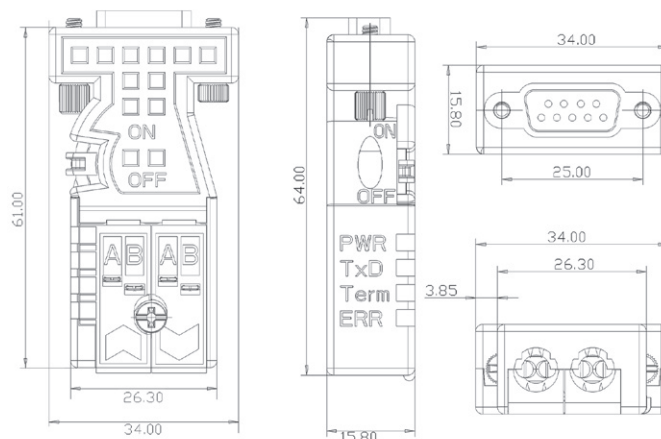| Switch ON/OFF	PWR Green	TxD Green	Term Green	ERR Yellow	Description
x	•	x	x	x	Power is OK (+5V ±5%)
x	☼	x	x	x	Power is out of (+5V ±5%)
x	☼	x	x	☼	Short-circuit of bus wire possible
X	X	○	X	X	No bus activity of participant
X	X	☼	X	X	Bus activity of participant
X	X	•	X	X	Bus activity, RTS (pin 4) of 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
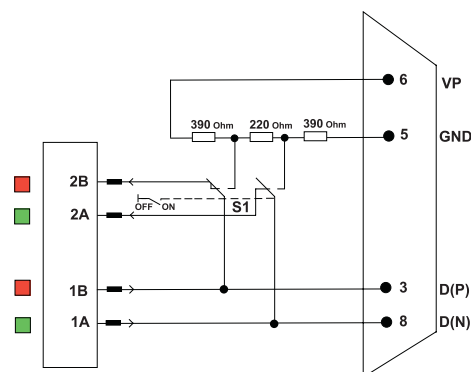
CE mark

Plugs are passive components and are subject to the CE mark system pursuant to EU Directives.

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Engineering drawing

Functional diagram

Ordering details	Art. No.
Diagnostic connector axial Fast Connect	**110050008**

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