



EPIC® DATA PB Sub-D

PROFIBUS connectors with screw terminals | REPEATER function | ATEX



Info

- Optional with LED diagnostic
- M12, REPEATER and ATEX version
- Versions with 2nd Sub-D interface

Benefits

- Easy connection with tried-and-tested M12 / screw terminal technology
- Sensor/ ac
- Terminating resistor (integrated) can be switched
- REPEATER version: Regeneration of data signal (slope, power and mark-to-space ratio)
- ATEX version: For use within intrinsically-safe circuits in zone 2 areas with an explosion hazard (explosive gas atmosphere occurs only rarely and briefly)

Product features

- Max. transmission rate 12 Mbit/s possible
- Current consumption max. 12,5 mA (with LED 35 mA / REPEATER 100 mA)
- Supply voltage 4.75 - 5.25 V DC (supplied from the terminal)
- Terminating resistor "ON" - the outbound bus cable is disconnected
- REPEATER version: Easy extension of the PROFIBUS network:
 - up to 3 repeaters
 - 1 additional PROFIBUS segment
 - galvanic isolation

Norm references / Approvals

- IEC 61158, IEC 61784
- UL File No. E331560
- ATEX version: DIN EN 60079-0:2006, DIN 60079-15:2005 (category 3G zone 2)

Product Make-up

- D-Sub plug, 9-pin, fixing screws 4-40 UNC
- Improved electromagnetic compatibility (EMC) by metallized housing
- Versions with additional Sub-D interface for programming/diagnostic ("PG")
- For cable outer diameter: 5 8 mm / M12 B-coded cordsets
- LED Version indicate:
 - bus operation - (green)
 - station transmission - (blue)
 - terminating resistor "on" - (orange)

Suitable cables

- UNITRONIC® BUS PB Page 332
- UNITRONIC® BUS PB M12 Page 355
- UNITRONIC® BUS PB M12-M12 Page 356

Suitable tools

- Kraftform® adjustable torque screwdriver/ Kraftform Kompakt® Set refer to page 1060

Technical data

Classification ETIM 5/6
 ETIM 5.0/6.0 Class-ID: EC001132
 ETIM 5.0/6.0 Class-Description: D-Sub connector

Dimensions
 54 mm x 40 mm x 17 mm - 35°
 64 mm x 40 mm x 17 mm - 90°
 68 mm x 40 mm x 17 mm - 180°
 70 mm x 40 mm x 17 mm - M12 (LxWxH)

Connection type
 Screwing
 M12

Protection rating
 IP 20

Terminating resistor
 150 Ω

Interfaces
 Sub-D socket, 9-pin
 Terminal blocks up to 1.0 mm² /M12 B-coded

Permissible ambient conditions
 Operating temperature: -25 °C to +85 °C
 *The max. temperature for UL is 60 °C.

Article number	Article designation	Version	PG-Interface	Diagnostic LEDs	PU
35° cable outlet					
21700507	ED-PB-35		no	no	1
21700506	ED-PB-35-PG		yes	no	1
90° cable outlet					
21700504	ED-PB-90		no	no	1
21700503	ED-PB-90-PG		yes	no	1
21700530	ED-PB-90-LED		no	yes	1
21700529	ED-PB-90-PG-LED		yes	yes	1
21700520	ED-PB-PG-90-M12	M12	yes	no	1
21700541	ED-PB-90-RP-PG	REPEATER	yes	yes	1
21700543	ED-PB-90-ATEX	ATEX	no	no	1
21700542	ED-PB-90-PG-ATEX	ATEX	yes	no	1
180° (AX) cable outlet					
21700505	ED-PB-AX		no	no	1

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 ACCESSORIES
 APPENDIX