

EPIC® DATA PB Sub-D

PROFIBUS connectors with screw terminals | REPEATER function

PROFIBUS Sub-D connector, screw terminals, integrated bus termination, optional LED diagnostic/interfaces, cable outlet 35°/90°/180°

Info

Optional with LED diagnostic

M12 and REPEATER version

Versions with 2nd Sub-D interface



Supplementary automation components from Lapp



Low weight



Space requirement

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

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You can find the current technical data in the corresponding data sheet.

PN 0456 / 02_03.16

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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)

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC001132 ETIM 5.0 Class-Description: D-Sub connector
Classification ETIM 6:	ETIM 6.0 Class-ID: EC001132 ETIM 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 mm ² /M12 B-coded
Permissible ambient conditions:	Operating temperature: -25 °C to +85 °C *The max. temperature for UL is 60 °C

Note

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

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