FB-HSB-DP/PA - Converter

2316370

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PROFIBUS DP to PROFIBUS PA coupler system for integration and diagnostics of PROFIBUS PA in PROFIBUS DP. Includes the one-network head station unit (FB-HSB), PROFIBUS DP repeater (FB-DP-RPTR), and PROFIBUS PA interface module with oscilloscope functionality.

Product description

PROFIBUS coupler/link products transparently convert PROFIBUS DP to PROFIBUS PA, while providing detailed network diagnostics and an oscilloscope feature for PROFIBUS PA

Your advantages

- Powerful, embedded web server for configuration and access to network diagnostics
- Manage and configure PROFIBUS field devices using FDT/DTM
- Auto detect any baud rate up to 12 Mbps transparently
- One communication interface module can drive up to ten individual PROFIBUS DP or PROFIBUS PA modules

Commercial data

Item number	2316370
Packing unit	1 pc
Sales key	DN11
Product key	DNC135
Catalog page	Page 460 (C-6-2019)
GTIN	4055626020471
Weight per piece (including packing)	850.4 g
Weight per piece (excluding packing)	850.4 g
Customs tariff number	85176200
Country of origin	NL

Set consists of

FB-DP-RPTR - Repeater

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PROFIBUS DP interface/repeater module

FB-PA/SC - Repeater

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PROFIBUS PA interface module with oscilloscope

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FB-HSB - Converter

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Head station for monitoring one PROFIBUS network

Technical data

Product properties

Product type	Device coupler

Electrical properties

Supply

Supply voltage range	10.8 V DC ... 26.4 V DC
Max. current consumption	800 mA

Connection data

Supply

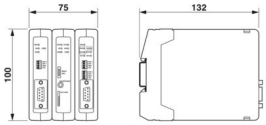
Conductor cross section, flexible	0.20 mm² ... 2.50 mm²
Conductor cross section, rigid	0.20 mm² ... 2.50 mm²
Conductor cross section AWG	24 ... 12

Interfaces

Data: Ethernet

Connection method	RJ45
No. of channels	1
Conductor cross section flexible max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section, rigid max.	2.5 mm²
Conductor cross section, rigid min.	0.2 mm²
Conductor cross section AWG max.	12
Conductor cross section AWG min.	24

Dimensions

Dimensional drawing	
Width	75 mm
Height	100 mm
Depth	132 mm

Material specifications

Color	green

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 60 °C
Altitude	2000 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

Approvals

Conformity/Approvals

UL, USA / Canada	UL 508 Listed
UL, Canada	CSA C22.2 No. 142

Standards and regulations

Standards/regulations

Standards/regulations	Ring wave noise immunity in acc. with IEC 61000-4-12

Standards/regulations

Standards/regulations	Dry heat in acc. with IEC 61131-2

Standards/regulations

Standards/regulations	Damp heat in acc. with IEC 61131-2

Standards/regulations

Standards/regulations	Shock and vibration in acc. with EN 61131-2 and EN 50178

PROFIBUS standardization

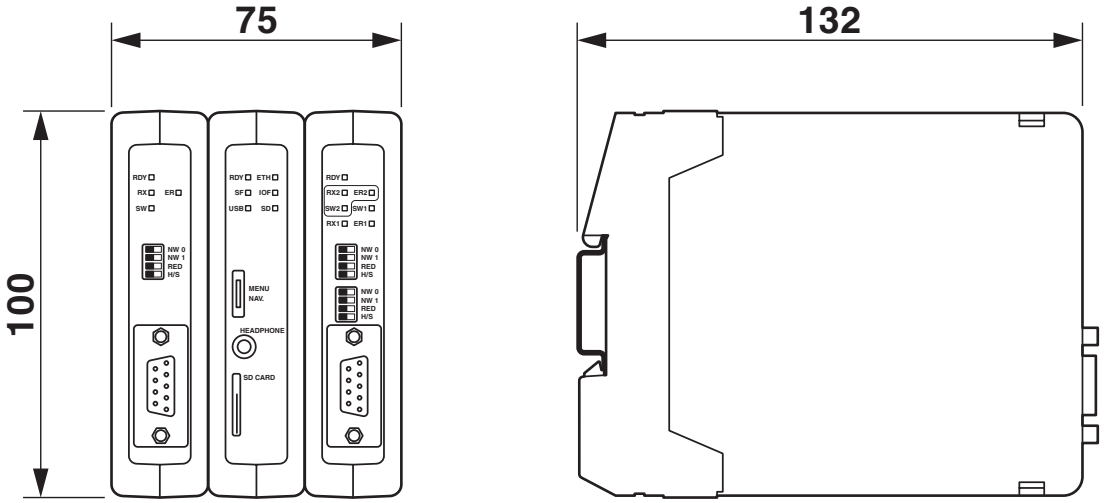
Standards/regulations	IEC 61158-2

Mounting

Mounting type	DIN rail: 35 mm
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715

Drawings

Dimensional drawing



Classifications

ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608

ETIM

ETIM 9.0	EC001604

UNSPSC

UNSPSC 21.0	32151600

Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

Accessories

FB-DP-RPTR - Repeater

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PROFIBUS DP interface/repeater module

FB-DP-RPTR/SC - Repeater

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PROFIBUS DP interface/repeater module with oscilloscope functionality

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FB-PA/SC - Repeater

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PROFIBUS PA interface module with oscilloscope

FB-HSC - Converter

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Head station for monitoring up to four PROFIBUS networks

FB-HSP-PLUG/24DC/6A - Power module

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PROFIBUS power module

FB-MM-FO/ST - FO converters

1074671

https://www.phoenixcontact.com/us/products/1074671



Multi-mode fiber optic converter to be used with the FB-HSB-DP/PA station. These fiber optic modules provide longer distances between FB-HSB-DP/PA stations, reduce noise, allow multiple topologies, as well as ring redundancy.

FB-SM-FO/ST - FO converters

1086569

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Single-mode fiber optic converter to be used with the FB-HSB-DP/PA station. These fiber optic modules provide longer distances between FB-HSB-DP/PA stations, reduce noise, allow multiple topologies, as well as ring redundancy.

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