

# FB-HSB-DP/PA - Converter

2316370

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

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## Set consists of

### FB-DP-RPTR - Repeater

2316373

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PROFIBUS DP interface/repeater module



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### FB-PA/SC - Repeater

2316375

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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

# FB-HSB-DP/PA - Converter

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## Technical data

### Product properties

Product type	Device coupler
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### Electrical properties

#### Supply

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

### Connection data

#### Supply

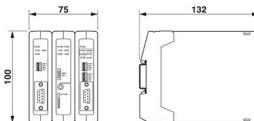
Conductor cross section, flexible	0.20 mm <sup>2</sup> ... 2.50 mm <sup>2</sup>
Conductor cross section, rigid	0.20 mm <sup>2</sup> ... 2.50 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12

### Interfaces

#### Data: Ethernet

Connection method	RJ45
No. of channels	1
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section, rigid max.	2.5 mm <sup>2</sup>
Conductor cross section, rigid min.	0.2 mm <sup>2</sup>
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
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### 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
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### Standards/regulations

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

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

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

Standards/regulations	IEC 61158-2
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## Mounting

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

# FB-HSB-DP/PA - Converter

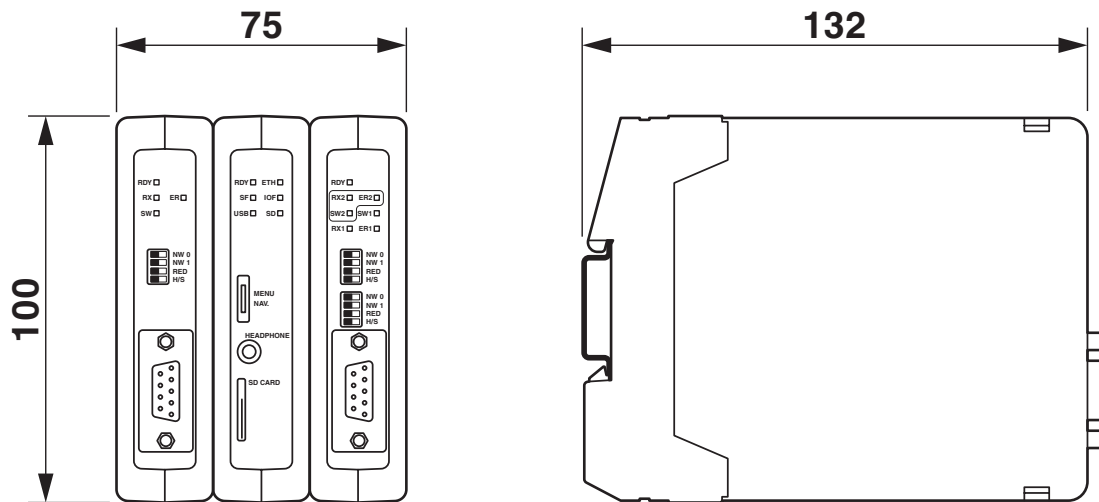
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## Drawings

Dimensional drawing



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## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	EC001604
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### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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## Accessories

### FB-DP-RPTR - Repeater

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PROFIBUS DP interface/repeater module



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### FB-DP-RPTR/SC - Repeater

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<https://www.phoenixcontact.com/us/products/2316374>

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



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## FB-HSC - Converter

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Head station for monitoring up to four PROFIBUS networks



## FB-HSB-DP/PA - Converter

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

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PROFIBUS power module



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## 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-HSB-DP/PA - Converter

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## FB-SM-FO/ST - FO converters

1086569

<https://www.phoenixcontact.com/us/products/1086569>



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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)