

# FB-HSB-DP-SC/PA - Converter

2316381

<https://www.phoenixcontact.com/us/products/2316381>



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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 with oscilloscope (FB-DP-RPTR/SC), and PROFIBUS PA interface module with oscilloscope.

## 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 and PROFIBUS DP

## 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	2316381
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	DN11
Product key	DNC135
GTIN	4055626287966
Weight per piece (including packing)	887 g
Weight per piece (excluding packing)	887 g
Customs tariff number	85176200
Country of origin	NL

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Set consists of

## FB-DP-RPTR/SC - Repeater

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PROFIBUS DP interface/repeater module with oscilloscope functionality



## 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



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## Technical data

### Notes

Note on application

Note on application

Only for industrial use

### 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 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

Width

75 mm

Height

100 mm

Depth

132 mm

### Material specifications

Color

green

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection

IP20

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Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 60 °C
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

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## Classifications

### ECLASS

ECLASS-13.0	27242608
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### ETIM

ETIM 9.0	EC001604
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### UNSPSC

UNSPSC 21.0	32151600
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## 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%
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