

# FB-2SP-ET - Device coupler



2316022

<https://www.phoenixcontact.com/us/products/2316022>

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Device coupler for Foundation Fieldbus and PROFIBUS PA with Trunk In and Trunk Out connections (preinstalled mechanical terminator) and additional terminal connections for 2 spurs connected to fieldbus end devices.

## Your advantages

- Power is supplied to the device couplers via the TBUS
- The TBUS routes the fieldbus data from the trunk line modules to the extension modules
- Recommended for high-density control cabinet installations
- LEDs indicate the power and error state
- Built-in short-circuit protection

## Commercial data

Item number	2316022
Packing unit	1 pc
Sales key	DN11
Product key	DNC144
GTIN	4046356298704
Weight per piece (including packing)	103.1 g
Weight per piece (excluding packing)	94.4 g
Customs tariff number	85176200
Country of origin	SG

## Technical data

### Product properties

Product type	Device coupler
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### Electrical properties

#### Supply

Supply voltage range	9 V DC ... 31 V DC (input on trunk line side)
Typical current consumption	7 mA

### Ex data

#### Safety data

Max. external inductivity $L_o$ / Max. external capacitance $C_o$	0.25 mH / 60 nF
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### Interfaces

#### Data: Foundation Fieldbus and PROFIBUS PA Segment

Connection method	Pluggable COMBICON screw connection for each spur
Termination resistor	100 $\Omega$ , external removable plug included
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
Output nominal voltage	$\leq 31$ V (per spur)
Output current	$\leq 43$ mA (per spur)
Maximum output current	$\leq 58$ mA (per spur)
Surge protection	Active if voltage exceeds 39 V (typ.) or 41 V (max.)
Voltage drop trunk line / outputs	$\leq 1.3$ V

#### Data: Foundation Fieldbus and PROFIBUS PA

Connection method	Pluggable screw connection
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

### Signaling

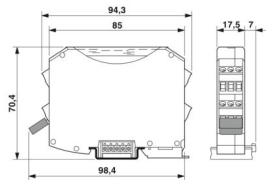
Status display	LED (green = Power OK; yellow = trunk comms OK; red = spur short-circuit)
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## Dimensions

Dimensional drawing	
Width	17.5 mm
Height	98.4 mm
Depth	70.4 mm

## Material specifications

Color	green
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (non-condensing)
Shock	15g, 11 ms
Vibration (operation)	10 Hz ... 150 Hz, 1g

## Approvals

### Conformity/Approvals

ATEX	⊕ II 3 G Ex nA [nL] IIC T4 X
IEC	IEC 60529, IEC 61158-2
UL, USA / Canada	Class I, Zone 2, Group IIC T4 Class I, Div. 2, Groups A, B, C, D, T4
EN	EN 61326, EN 60068-2-27, EN 60068-2-6
NE	NAMUR NE 21

## Standards and regulations

### Standards

Standards/regulations	IEC 60529, IEC 61158-2
	NE21
	EN 61326, EN 60068-2-27, EN 60068-2-6

## Mounting

Mounting type	DIN rail mounting
Mounting position	horizontal DIN rail NS 35, EN 60715

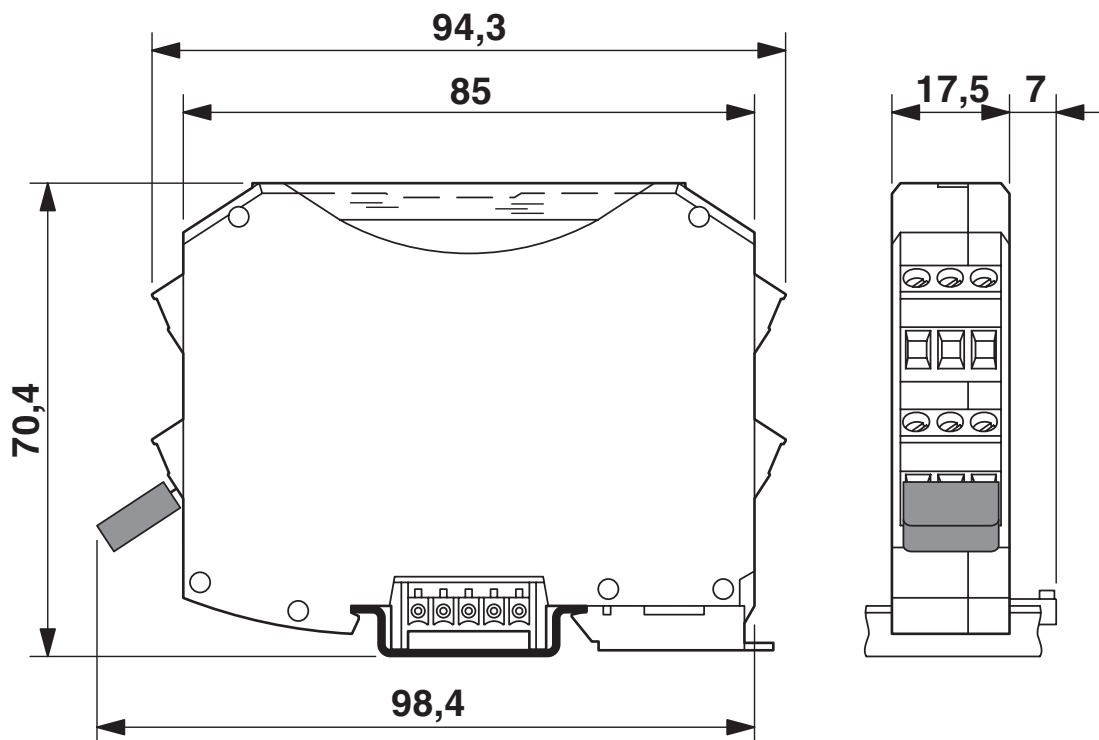
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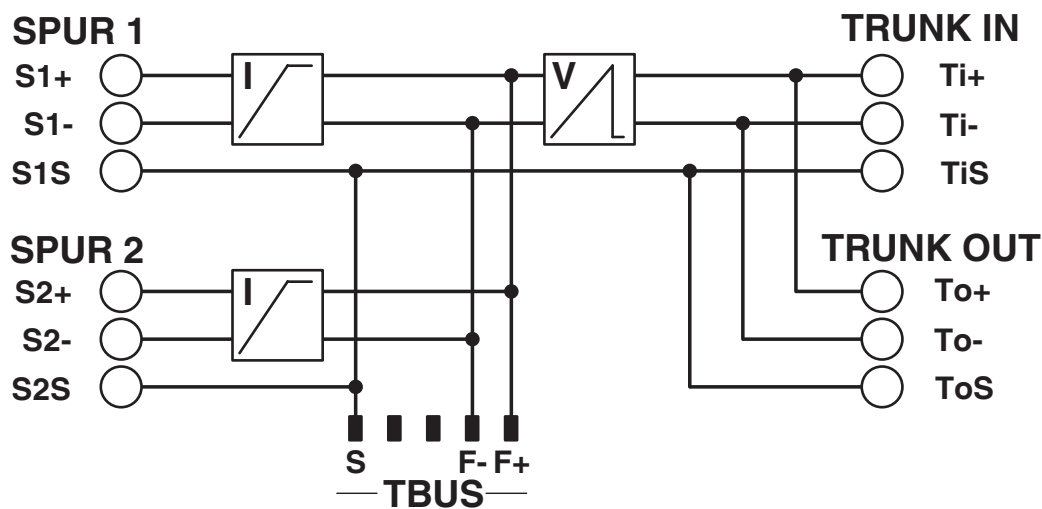
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## Drawings

Dimensional drawing



Circuit diagram



Connection diagram: FB-2SP-ET

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## Environmental product compliance

EU REACH SVHC

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