

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 Ω , external removable plug included
Conductor cross-section flexible max.	2.5 mm ²
Conductor cross-section flexible min.	0.2 mm ²
Conductor cross-section, rigid max.	2.5 mm ²
Conductor cross-section, rigid min.	0.2 mm ²
Conductor cross-section AWG max.	12
Conductor cross-section AWG min.	24
Output nominal voltage	≤ 31 V (per spur)
Output current	≤ 43 mA (per spur)
Maximum output current	≤ 58 mA (per spur)
Surge protection	Active if voltage exceeds 39 V (typ.) or 41 V (max.)
Voltage drop trunk line / outputs	≤ 1.3 V

Data: Foundation Fieldbus and PROFIBUS PA

Connection method	Pluggable screw connection
Conductor cross-section flexible max.	2.5 mm ²
Conductor cross-section flexible min.	0.2 mm ²
Conductor cross-section, rigid max.	2.5 mm ²
Conductor cross-section, rigid min.	0.2 mm ²
Conductor cross-section AWG max.	12
Conductor cross-section AWG min.	24

Signaling

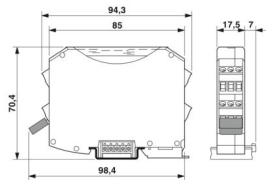
Status display	LED (green = Power OK; yellow = trunk comms OK; red = spur short-circuit)
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Dimensions

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

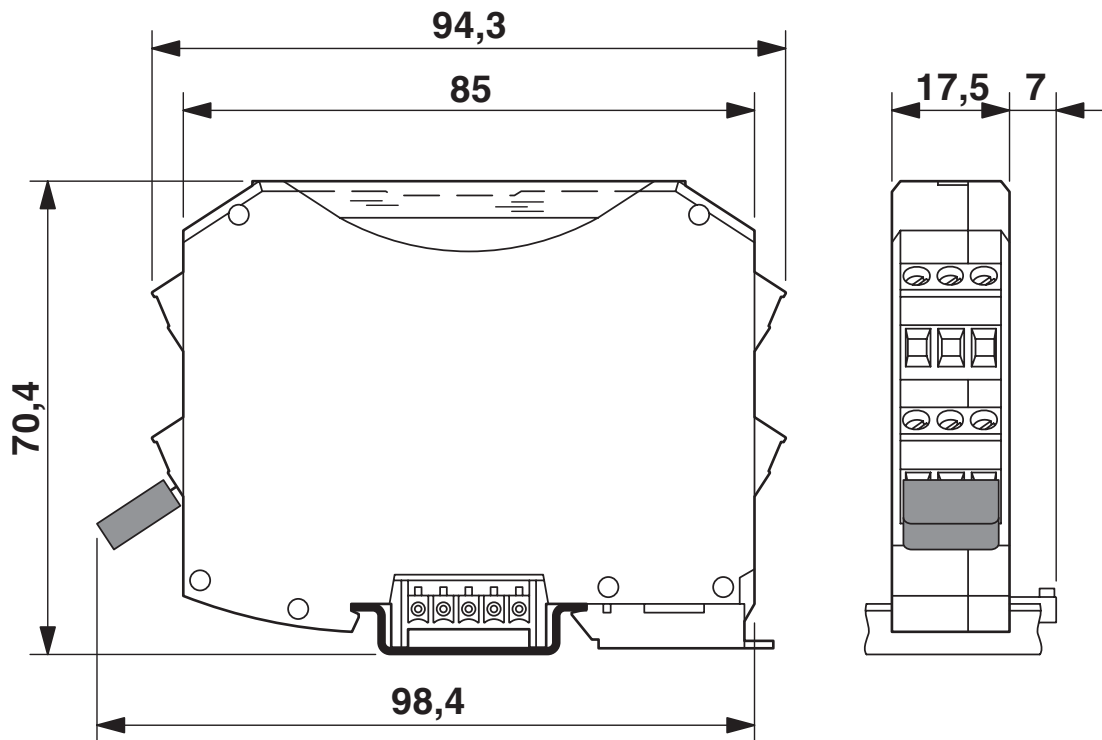
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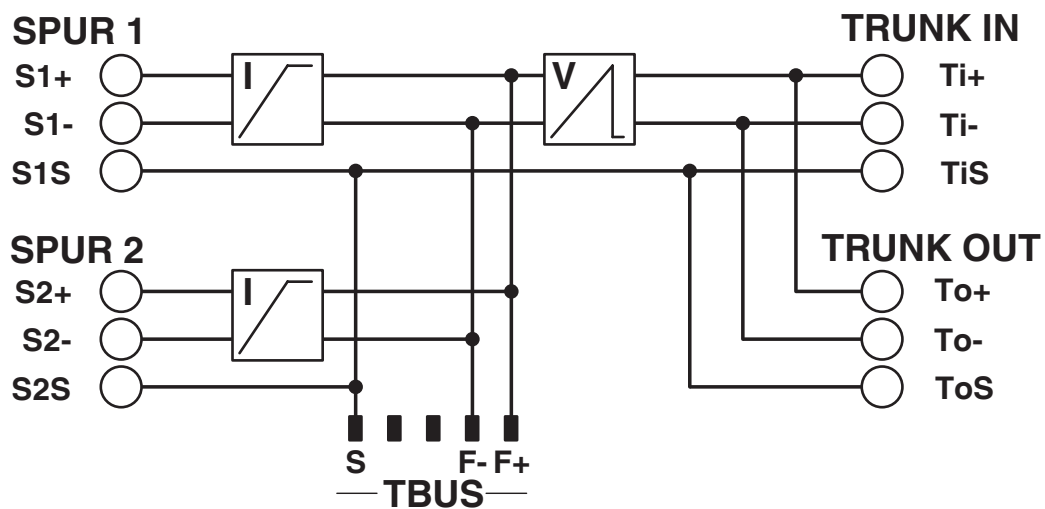
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Drawings

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