

# FB-ET - Trunk module

2316048

<https://www.phoenixcontact.com/us/products/2316048>

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Trunk module for Foundation Fieldbus and PROFIBUS PA expansions with terminator



## Commercial data

Item number	2316048
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN11
Product key	DNC144
GTIN	4046356466165
Weight per piece (including packing)	106.2 g
Weight per piece (excluding packing)	102.7 g
Customs tariff number	85389099
Country of origin	US

## Technical data

### Product properties

Product type	Device coupler
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### Electrical properties

#### Supply

Supply voltage range	24 V DC ... 32 V DC
Nominal supply voltage	24 V DC (IIC)
	32 V DC (IIB)
Typical current consumption	8 mA (without termination resistor)
Max. current consumption	12 mA (with terminator)

### Ex data

#### Safety data

Input voltage $U_i$	17.5 V (for FB-2SP in a FNICO/FISCO ic system)
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### Interfaces

Signal	PROFIBUS
	FOUNDATION Fieldbus

#### 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
Surge protection	Active if voltage exceeds 39 V (typ.) or 41 V (max.)
Voltage drop trunk line / outputs	$\leq 0.2$ V

### Dimensions

Dimensional drawing	
Width	17.5 mm
Height	99.1 mm

Depth	70.4 mm
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## Material specifications

Color	green
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## Mechanical tests

Corrosive resistance in accordance with ANSI-ISA 71.04-1985 - Severity level G3	:
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## Environmental and real-life conditions

### Ambient conditions

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

## Approvals

### Conformity/Approvals

Conformance	CE-compliant, additionally EN 61326
IEC	IEC 60529, IEC 61158-2
CSA, USA/Canada	Class I, Zone 2, AEx nA IIC T4 Class I, Division 2, Groups A,B,C,D
Fieldbus Foundation	FF-846
EN	EN 61326, EN 60068-2-27, EN 60068-2-6
NE	NAMUR NE 21

### Ex data

ATEX	Sira 08ATEX4302X; II 3G Ex nA IIC T4 Gc II 3G Ex ic IIC T4 Gc, FISCO ic II 3G Ex nL IIC T4 Gc, FNICO
IECEX	IECEX SIR 08.0109X; Ex nA IIC T4 Gc; Ex ic IIC T4 Gc, FISCO ic; Ex nL IIC T4 Gc, FNICO
CSA, USA/Canada	Class I, Division 2, Groups A,B,C,D; Ex nA IIC T4 Class I, Zone 2, AEx nA IIC T4

## Standards and regulations

### Standards

Standards/regulations	IEC 60529, IEC 61158-2
	NE21
	EN 61326, EN 60068-2-27, EN 60068-2-6
	FF-846

### 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
Standards/regulations	IEC 61158-2

## Mounting

Mounting type	DIN rail mounting
Mounting position	on horizontal DIN rail NS 35 in acc. with EN 60715

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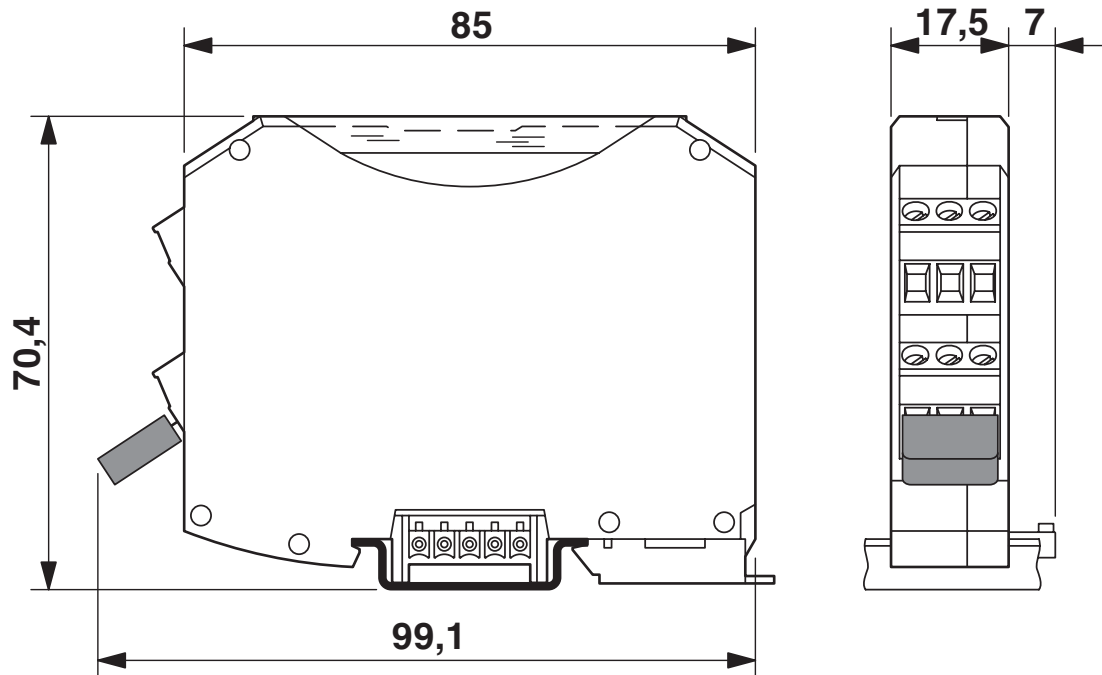
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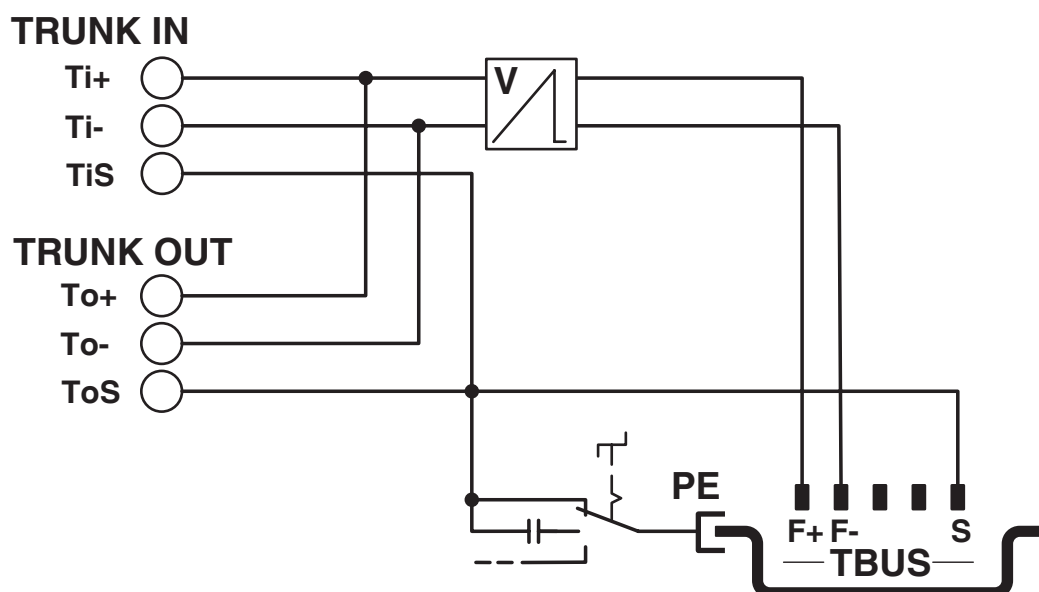


## Drawings

Dimensional drawing



Circuit diagram



Connection diagram: FB-ET

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## Classifications

### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### 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.)	Lead(CAS: 7439-92-1)
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