

# FB-ET/E - Trunk module

2316050

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Trunk module for Foundation Fieldbus and PROFIBUS PA modular device couplers with terminator

## Product description

The FB-ET/E connects the trunk of a fieldbus segment to modular device couplers using the tbus connector system. Pre-installed terminator in the trunk-out connector for easy installation.

## Commercial data

Item number	2316050
Packing unit	1 pc
Sales key	DN11
Product key	DNC144
GTIN	4055626000923
Weight per piece (including packing)	111.9 g
Weight per piece (excluding packing)	62.6 g
Customs tariff number	85389099
Country of origin	US

## Technical data

### Notes

#### Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.
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### Product properties

Product type	Device coupler
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### Electrical properties

#### Supply

Supply voltage range	10.5 V DC ... 32 V DC (input on trunk line side)
Max. current consumption	2 mA (with terminator)

### Connection data

#### Supply

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

### Ex data

#### Safety data

Input voltage $U_i$	17.5 V (FNICO/FISCO ic)
	32 V (maximum non-FISCO)
Max. voltage $U_i$	32 V
Input current $I_i$	1 A (max. T-BUS load current)
Inductance $L_i$	0 mH (FNICO/FISCO ic)
Capacitance $C_i$	1.826 nF (FNICO/FISCO ic)
Max. output voltage $U_o$	= $U_i$

### 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	≤ 0.2 V

## Dimensions

Width	17.5 mm
Height	99.1 mm
Depth	70.4 mm

## 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
Max. permissible relative humidity (operation)	< 95 % (non-condensing)
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
Fieldbus Foundation	FF-846
EN	EN 61326, EN 60068-2-27, EN 60068-2-6
NE	NAMUR NE 21

### Ex data

ATEX	Sira 14ATEX4017X; II 3G; Ex nA IIC T4 Gc; Ex ic IIC T4, FISCO ic
IECEX	IECEX SIR 14.0010X; Ex nA IIC T4 Gc; Ex ic IIC T4 Gc, FISCO ic
CSA, USA/Canada	Class I, Div. 2, Groups A, B, C, D; Ex nA IIC T4 Gc; Ex nL IIC T4, FNICO; Ex ic IIC T4 Gc, FISCO ic Class I, Zone 2; AEx nA IIC T4 Gc; AEx nL IIC T4, FNICO; AEx ic IIC T4 Gc, FISCO ic

## Standards and regulations

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## 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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## Classifications

### ECLASS

ECLASS-13.0

27242608

### ETIM

ETIM 9.0

EC001604

### 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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