

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
Catalog page	Page 425 (C-8-2015)
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

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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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
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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
Surge protection	Active if voltage exceeds 39 V (typ.) or 41 V (max.)
Voltage drop trunk line / outputs	≤ 0.2 V

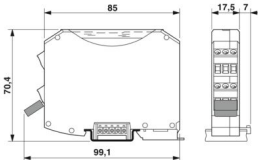
Dimensions

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Dimensional drawing	
	
Width	17.5 mm
Height	99.1 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 ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Shock	15g, 11 ms
Vibration (operation)	1g, 10 Hz ... 150 Hz

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	IEC 60529, IEC 61158-2
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Standards/regulations	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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