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.

Product properties

Product type	Device coupler

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 mm² ... 0.20 mm²
Conductor cross-section, rigid	2.50 mm² ... 0.20 mm²
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 Li	0 mH (FNICO/FISCO ic)
Capacitance Ci	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 Ω, external removable plug included
Conductor cross-section flexible max.	2.5 mm²
Conductor cross-section flexible min.	0.2 mm²
Conductor cross-section, rigid max.	2.5 mm²
Conductor cross-section, rigid min.	0.2 mm²

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

Mechanical tests

Corrosive resistance in accordance with ANSI-ISA 71.04-1985 - Severity level G3	:

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

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

Standards/regulations

Standards/regulations	Dry heat in acc. with IEC 61131-2

Standards/regulations

Standards/regulations	Damp heat in acc. with IEC 61131-2

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

Classifications

ECLASS

ECLASS-13.0	27242608

ETIM

ETIM 9.0	EC001604

UNSPSC

UNSPSC 21.0	32151600

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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