

Trunk module - FB-ET/E - 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.



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 000923
GTIN	4055626000923
Weight per Piece (excluding packing)	228.000 g
Custom tariff number	85389099
Country of origin	United States

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
	Use in potentially explosive areas is not permitted in China.

Dimensions

Width	17.5 mm
Height	99.1 mm
Depth	70.4 mm

Trunk module - FB-ET/E - 2316050

Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Degree of protection	IP20

General

Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715
Mounting type	DIN rail mounting
Net weight	111.7 g
Color	green
Conformance	CE-compliant, additionally EN 61326
Fieldbus Foundation	FF-846

Power supply

Supply voltage range	10.5 V DC ... 32 V DC (input on trunk line side)
Max. current consumption	2 mA (with terminator)
Conductor cross section flexible max.	0.20 mm ²
Conductor cross section flexible min.	2.50 mm ²
Conductor cross section solid max.	0.20 mm ²
Conductor cross section solid min.	2.50 mm ²
Max. AWG conductor cross section, flexible	12
Min. AWG conductor cross section, flexible	24
Conductor cross section AWG max.	12
Conductor cross section AWG min.	24

Interfaces

Interface 1	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 solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Surge protection	Active if voltage exceeds 39 V (typ.) or 41 V (max.)
Voltage drop trunk line / outputs	≤ 0.2 V
Inductance L _i	0 mH (FNICO/FISCO ic)
Max. output voltage U _o	= U _i

Trunk module - FB-ET/E - 2316050

Technical data

Safety data

Input voltage U_i	17.5 V (FNICO/FISCO ic)
Input current I_i	1 A (max. T-BUS load current)
Max. output voltage U_o	= U_i
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

Type of test	Corrosive resistance in acc. to ANSI-ISA 71.04-1985 - Severity level G3
Designation	Standards/regulations
Standards/regulations	Ring wave noise immunity in acc. with IEC 61000-4-12
Designation	Standards/regulations
Standards/regulations	Dry heat in acc. with IEC 61131-2
Designation	Standards/regulations
Standards/regulations	Damp heat in acc. with IEC 61131-2
Designation	Standards/regulations
Standards/regulations	Shock and vibration in acc. with EN 61131-2 and EN 50178
	IEC 61158-2
	IEC 60529, IEC 61158-2
	NE21
	EN 61326, EN 60068-2-27, EN 60068-2-6
	FF-846
Shock	15g, 11 ms
Vibration (operation)	1g, 10 Hz ... 150 Hz
Conformance	CE-compliant, additionally EN 61326
Fieldbus Foundation	FF-846
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

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years

Trunk module - FB-ET/E - 2316050

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Environmental Product Compliance

	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"
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Classifications

eCl@ss

eCl@ss 10.0.1	27242608
eCl@ss 11.0	27242608
eCl@ss 5.0	27259200
eCl@ss 5.1	27259200
eCl@ss 6.0	27242600
eCl@ss 7.0	27242608
eCl@ss 9.0	27242608

ETIM

ETIM 4.0	EC001600
ETIM 6.0	EC001604
ETIM 7.0	EC001604

UNSPSC

UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602