Device coupler - FB-2SP/E - 2316052

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Device coupler for Foundation Fieldbus and PROFIBUS PA with terminal connections for two spurs connected to fieldbus end devices

Product Description

The FB-2SP/E has terminal blocks for two spur connections to each device coupler. The device coupler provides short-circuit protection to the fieldbus trunk. Voltage and communication are routed via the TBUS connection system to multiple installed device couplers.

Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	1.0 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

Dimensions

Width	17.5 mm
Height	89.7 mm
Depth	70.4 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C (depending on set rated current)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)

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Ambient conditions

Degree of protection	IP20

General

Standards/regulations	IEC 60529, IEC 61158-2
	EN 61326, EN 60068-2-27, EN 60068-2-6, EN 60079-0, EN 60079-11, EN 60079-15
	NE21
	FF-846
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715
Net weight	222 g
Housing material	PA 66-FR
Color	green
Fieldbus Foundation	FF-846

Power supply

Supply voltage range	10.5 V DC ... 32 V DC (via FB-ET/E)
Max. current consumption	3.5 mA (no load)
Conductor cross section flexible max.	0.20 mm²
Conductor cross section flexible min.	2.50 mm²
Conductor cross section solid max.	0.20 mm²
Conductor cross section solid min.	2.50 mm²
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

Serial interface

Interface 1	Foundation Fieldbus and PROFIBUS PA Segment
Connection method	Pluggable COMBICON screw connection for each spur
Termination resistor	via FB-ET/E
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Output nominal voltage	≤ 32 V (each spur)
Maximum output current	45 mA (per spur)

Safety data

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Safety data

Max. output voltage U_o	U_i
Max. output current I_o	50 mA (per spur)
Max. output power P_o	U_o x I_o
Group	IIC
Max. external capacity C_o	60 nF
Group	IIC
Max. external inductivity L_o	250 µH
ATEX	Sira 14ATEX4018X; # II 3(3)G Ex nA [ic] IIC T4 Gc; Ex nA [ic] IIC T4 Gc, FISCO ic spurs
IECEx	IECEx SIR 14.0011X; Ex nA [ic] IIC T4 Gc; Ex nA [ic] IIC T4 Gc, FISCO ic spurs
CSA, USA/Canada	Class I, Div. 2, Groups A,B,C,D Ex nL IIC T4 FNICO, Ex ic IIC T4 FISCO ic Ex nA [nL] IIC T4, Ex nA [ic] IIC T4 Ex nA [nL] IIC T4 FNICO spurs, Ex nA [ic] IIC T4 FISCO ic spurs Class I, Zone 2 AEx nL IIC T4 FNICO, AEx ic IIC T4 FISCO ic AEx nA [nL] IIC T4, AEx nA [ic] IIC T4 AEx nA [nL] IIC T4 FNICO spurs, AEx nA [ic] IIC T4 FISCO ic spurs

Classifications

eCl@ss

eCl@ss 5.1	27259205
eCl@ss 6.0	27259090

ETIM

ETIM 4.0	EC001600
ETIM 5.0	EC001604

Drawings

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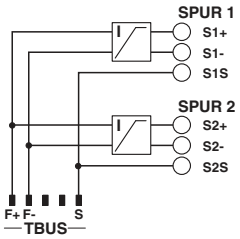
Circuit diagram



Connection diagram: FB-2SP