

FB-2SP/24DC - Device coupler



2316352
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Foundation Fieldbus isolator for Zone 2 installation using the intrinsically safe [ic] protection method.

Product description

The FB-2SP/24DC 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.

Commercial data

Item number	2316352
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNC
Product key	DNC144
Catalog page	Page 455 (C-6-2019)
GTIN	4055626088716
Weight per piece (including packing)	111.5 g
Weight per piece (excluding packing)	111.5 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

9 V DC ... 30 V DC

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

Inductance L_i

4 µH (spurs)

Capacitance C_i

0 nF (spurs)

Max. output voltage U_o

23.56 V DC (spurs)

Max. output current I_o

40.9 mA (spurs)

Max. output power P_o

0.964 W (spurs)

Max. external inductivity L_o / Max. external capacitance C_o

/ 60 nF

250 µH

Interfaces

Signal

PROFIBUS

FOUNDATION Fieldbus

Data: Foundation Fieldbus and PROFIBUS PA Segment

Connection method

Pluggable COMBICON screw connection for each spur

No. of channels

2

Tightening torque

0.5 Nm ... 0.6 Nm

Termination resistor

via FB-ET/E

Conductor cross section flexible max.

2.5 mm²

Conductor cross section flexible min.

0.2 mm²

Conductor cross section, rigid max.

2.5 mm²

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Conductor cross section, rigid min.	0.2 mm ²
Conductor cross section AWG max.	12
Conductor cross section AWG min.	24
Output nominal voltage	≤ 32 V (each spur)
Maximum output current	35 mA (per channel)
	50 mA (per module)

Dimensions

Width	17.5 mm
Height	89.7 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

IEC	IEC 60079-0:2011; IEC 60079-11:2011; IEC 60079-15:2010
Fieldbus Foundation	FF-846
EN	EN 60079-0:2011; EN 60079-11:2011; EN 60079-15:2010
NE	NAMUR NE 21

Ex data

ATEX	Sira 13ATEX4016; II 3(3)G Ex nA [ic] IIC T4 Gc
IECEX	IECEX SIR 13.0001X; Ex nA [ic] IIC T4 Gc
CSA, USA/Canada	Class I, Div. 2, Groups A, B, C, D; Ex nA[ic] IIC T4 Gc Class I, Zone 2; AEx nA[ic] IIC T4 Gc

Standards and regulations

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

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
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715

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Approvals

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CSA

Approval ID: 70009852



ATEX

Approval ID: SIRA 13 ATEX 4016 X

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Classifications

ECLASS

ECLASS-11.0	27242610
ECLASS-12.0	27242610

ETIM

ETIM 8.0	EC001600
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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