

Device coupler - FB-2SP/24DC - 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.



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626088716
Weight per Piece (excluding packing)	100.000 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	89.7 mm
Depth	70.4 mm

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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
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Mounting type	DIN rail mounting
Net weight	111.5 g
Color	green
Fieldbus Foundation	FF-846

Power supply

Supply voltage range	9 V DC ... 30 V DC
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
No. of ports	2
Connection method	Pluggable COMBICON screw connection for each spur
Termination resistor	via FB-ET/E
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
Torque	0.5 Nm ... 0.6 Nm
Output nominal voltage	≤ 32 V (each spur)
Maximum output current	35 mA (per channel)
	50 mA (per module)

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Interfaces

Inductance L_i	4 μ H (spurs)
Max. output voltage U_o	23.56 V DC (spurs)

Safety data

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 capacitance C_o	60 nF
Additional text	spurs
Max. external inductivity L_o	250 μ H
Additional text	spurs
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

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
Shock	15g, 11 ms
Vibration (operation)	1g, 10 Hz ... 150 Hz
Fieldbus Foundation	FF-846
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

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 10.0.1	27242610
eCl@ss 11.0	27242610
eCl@ss 5.0	27259200
eCl@ss 5.1	27259200
eCl@ss 6.0	27242600
eCl@ss 7.0	27242610
eCl@ss 9.0	27242610

ETIM

ETIM 6.0	EC001600
ETIM 7.0	EC001600

UNSPSC

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