

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

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	17.5 mm
Height	89.7 mm
Depth	70.4 mm

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
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Technical data

General

Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
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

Serial interface

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)
Inductance L _i	4 μH (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 capacity C _o	60 nF
Additional text	spurs
Max. external inductivity L _o	250 μH
Additional text	spurs

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Technical data

Safety 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

Type of test	Corrosive resistance in acc. to ANSI-ISA 71.04-1985 - Severity level G3
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
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

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