

Device coupler - FB-6SP - 2316307

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

Why buy this product

- Connect up to six Foundation Fieldbus or PROFIBUS PA field devices
- Terminator preinstalled
- Provides current limiting short-circuit protection per spur
- Ex nA [nL, Ex nA [ic] or FISCO ic spur connections
- Single-sided plug configuration eliminates cable bend radius issues



Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 883580
GTIN	4046356883580

Technical data

Dimensions

Caption	FB-6SP dimensions
Width	148.2 mm
Height	112.5 mm
Depth	83.5 mm

Ambient conditions

Ambient temperature (operation)	-50 °C ... 90 °C
Ambient temperature (storage/transport)	-50 °C ... 90 °C
Altitude	2000 m
Degree of protection	IP20

General

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Technical data

General

Standards/regulations	EN 60079-0:2011; EN 60079-11:2012; EN 60079-15:2005; EN 60079-15:2010
	IEC 60079-0:2011; IEC 60079-11:2011; IEC 60079-15:2005; IEC 60079-15:2010
Mounting position	On horizontal and vertical DIN rail NS 35 in acc. with EN 60715
Net weight	323.5 g
MTTF	1256 Years (25 degrees C)
Conformance	CE-compliant, additionally EN 61326
UL, USA	ANSI/UL 61010-1
Fieldbus Foundation	FF-846

Power supply

Supply voltage range	10.5 V DC ... 32 V DC (input on trunk line side)
Typical current consumption	4.8 mA
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	6
Connection method	Pluggable COMBICON screw connection for each spur
Termination resistor	100 Ω (external removable plug) 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
Output nominal voltage	≤ 32 V (each spur)
Output current	38 mA
Inductance L _i	4 μH
Max. output voltage U _o	U _{in} (spur)

Safety data

Input voltage U _i	32 V (IIB (C/D))
Max. output voltage U _o	U _{in} (spur)

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Safety data

Max. output current I _o	56 mA (spur)
Max. output power P _o	1.792 W
Group	IIC/IIB
Max. external capacity C _o	80 nF
Additional text	spur
Group	IIC/IIB
Max. external inductivity L _o	0.26 mH
Additional text	spur
ATEX	Sira 13ATEX4247X; # II 3(3)G Ex nA [ic] IIC T4 Gc, Entity/FISCO ic spurs Ex nA [nL] IIC T4 Gc; # II 3G Ex ic IIC T4 Gc, FISCO ic
IECEX	IECEX SIR 13.0089X; Ex nA [ic] IIC T4 Gc, Entity/FISCO ic spurs; Ex nA [nL] IIC T4 Gc; Ex ic IIC T4 Gc, FISCO ic
UL, USA	Class I, Zone 2; AEx nA[ic] IIC T4, Entity/FISCO spurs Class I, Div. 2, Groups A, B, C, D; T4
CSA, USA/Canada	Class I, Div. 2, Groups A, B, C, D; Ex nA [nL] IIC T4; Class I, Zone 2, AEx nA [nC] IIC T4

Standards and Regulations

Type of test	Corrosive resistance in acc. to ANSI-ISA 71.04-1985 - Severity level G3
Standards/regulations	EN 60079-0:2011; EN 60079-11:2012; EN 60079-15:2005; EN 60079-15:2010
	IEC 60079-0:2011; IEC 60079-11:2011; IEC 60079-15:2005; IEC 60079-15:2010
Flammability rating according to UL 94	V0
Shock	30g, 11 ms
Vibration (operation)	5g, 10 Hz ... 150 Hz
Conformance	CE-compliant, additionally EN 61326
UL, USA	ANSI/UL 61010-1
Fieldbus Foundation	FF-846
Group	IIC/IIB
	IIC/IIB
ATEX	Sira 13ATEX4247X; # II 3(3)G Ex nA [ic] IIC T4 Gc, Entity/FISCO ic spurs Ex nA [nL] IIC T4 Gc; # II 3G Ex ic IIC T4 Gc, FISCO ic
IECEX	IECEX SIR 13.0089X; Ex nA [ic] IIC T4 Gc, Entity/FISCO ic spurs; Ex nA [nL] IIC T4 Gc; Ex ic IIC T4 Gc, FISCO ic
UL, USA	Class I, Zone 2; AEx nA[ic] IIC T4, Entity/FISCO spurs Class I, Div. 2, Groups A, B, C, D; T4
CSA, USA/Canada	Class I, Div. 2, Groups A, B, C, D; Ex nA [nL] IIC T4; Class I, Zone 2, AEx nA [nC] IIC T4

Environmental Product Compliance

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

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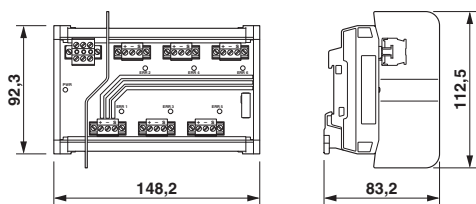
Technical data

Environmental Product Compliance

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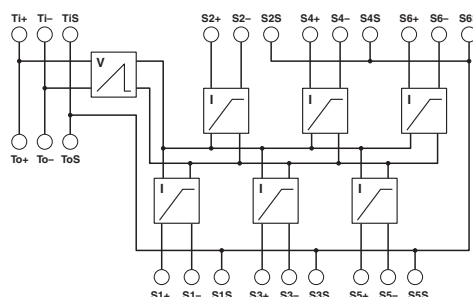
Drawings

Dimensional drawing



FB-6SP dimensions

Circuit diagram



Connection diagram: FB-6SP

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

IECEx / UL Listed / cUL Listed / ATEX / CSA / CSAus / cULus Listed

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330267
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cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330267
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PHOENIX CONTACT GmbH & Co. KG
Flachmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>