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Device coupler - FB-6SP - 2316307

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Device coupler for Foundation Fieldbus with terminal connections for six spurs connected to fieldbus end devices



Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 883580

Technical data

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
Degree of protection	IP20

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	324 g
Conformance	CE-compliant, additionally EN 61326
Fieldbus Foundation	FF-846

Power supply

Device coupler - FB-6SP - 2316307

Technical data

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
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

Safety data

Max. output voltage U _o	U _{in}
Max. output current I _o	56 mA
Max. output power P _o	1.792 W
Group	IIC/IIB
Max. external capacity C _o	80 nF
Group	IIC/IIB
Max. external inductivity L _o	0.26 mH
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
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
Safety-related maximum voltage U _m	17.5 V (in acc. with EN 60079-11)

Standards and Regulations

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Technical data

Standards and Regulations

Shock	30g, 11 ms
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
Vibration (operation)	5g, 10 ... 150 Hz
Conformance	CE-compliant, additionally EN 61326
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
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

Classifications

eCl@ss

eCl@ss 4.0	27250203
eCl@ss 4.1	27250203
eCl@ss 5.0	27250203
eCl@ss 5.1	27259205
eCl@ss 6.0	27259090
eCl@ss 7.0	27259090
eCl@ss 8.0	27242608

ETIM

ETIM 4.0	EC001600
ETIM 5.0	EC001600

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

Approvals

Approvals

Device coupler - FB-6SP - 2316307

Approvals

Approvals

UL Listed / cUL Listed

Ex Approvals

IECEX / ATEX / UL Listed / CSA / CSAus / cCSAus

Approvals submitted

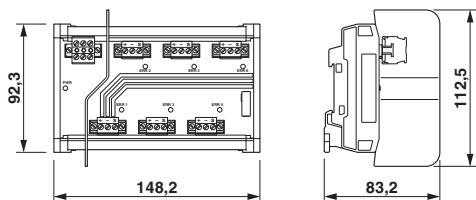
Approval details

UL Listed

cUL Listed

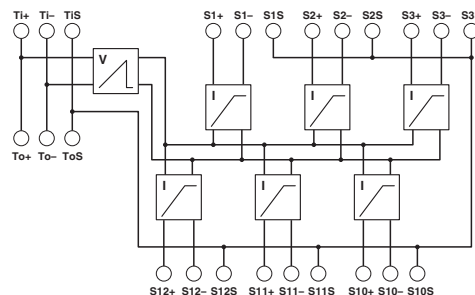
Drawings

Dimensional drawing



FB-6SP dimensions

Circuit diagram



Connection diagram: FB-6SP

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