

Device coupler - FB-ISO

2316064

<https://www.phoenixcontact.com/us/products/2316064>



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Device coupler for Foundation Fieldbus and PROFIBUS PA. Provides intrinsically safe FISCO connection to a single end device.

Your advantages

- Field barrier

Commercial Data

Item number	2316064
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C28
Product Key	DNC125
Catalog Page	Page 455 (C-6-2019)
GTIN	4046356466141
Weight per Piece (including packing)	134.8 g
Weight per Piece (excluding packing)	132.1 g
Customs tariff number	85389099
Country of origin	US

Technical Data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Product type	Device coupler
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Electrical properties

Electrical isolation	500 V AC (between input and output, routine test)
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Supply

Supply voltage range	17 V DC ... 32 V DC (input on trunk line side)
Typical current consumption	10 mA

Ex data

Safety data

Input voltage U_i	32 V
Inductance L_i	10 μ H
Capacitance C_i	0 μ F
IIC: Max. external inductivity L_o / Max. external capacitance C_o	/ 0.36 μ F
IIB: Max. external inductivity L_o / Max. external capacitance C_o	/ 2.11 μ F
	660 μ H
IIC: Max. external inductivity L_o / Max. external capacitance C_o	220 μ H

Interfaces

Signal	PROFIBUS
	FOUNDATION Fieldbus

Data: Foundation Fieldbus and PROFIBUS PA Segment

Connection method	Pluggable COMBICON screw connection for each spur
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section AWG max.	12
Conductor cross section AWG min.	24
Output nominal voltage	≥ 10 V (each spur)
Output current	15 mA (each spur, adjustable via selector switch)
	25 mA (each spur, adjustable via selector switch)
	35 mA (each spur, adjustable via selector switch)
	22 mA (each spur, adjustable via selector switch)

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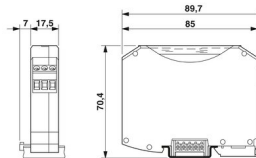
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Maximum output current	33 mA (each spur, adjustable via selector switch)
	45 mA (each spur, adjustable via selector switch)

Dimensions

Dimensional drawing



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 ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	< 95 % (non-condensing)
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Shock	15g, 11 ms
Vibration (operation)	1g, 10 Hz ... 150 Hz

Approval data

Conformity/Approvals

Conformance	CE-compliant, additionally EN 61326
IEC	IEC 60529, IEC 61158-2
EN	EN 61326, EN 60068-2-27, EN 60068-2-6
NE	NAMUR NE 21

Ex data

ATEX	II 3(3) G Ex nA [nL Gc] IIC T4 Gc, FNICO power supply (spur)
	II 3(1) GD Ex nA [ia Ga Da] IIC T4 Gc, FISCO power supply (spur)
IECEX	Ex nA [nL Gc] IIC T4 Gc, FNICO power supply (spur)
	Ex nA [ia Ga Da] IIC T4 Gc, FISCO power supply (spur)
CSA, USA/Canada	Ex nA [ia] IIC T4

Standards and regulations

Electrical isolation	500 V AC (between input and output, routine test)
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Standards

Standards/regulations	IEC 60529, IEC 61158-2
	NE21
	EN 61326, EN 60068-2-27, EN 60068-2-6
	VI-7-2 category C, EMC1

Mounting

Mounting type	DIN rail mounting
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715

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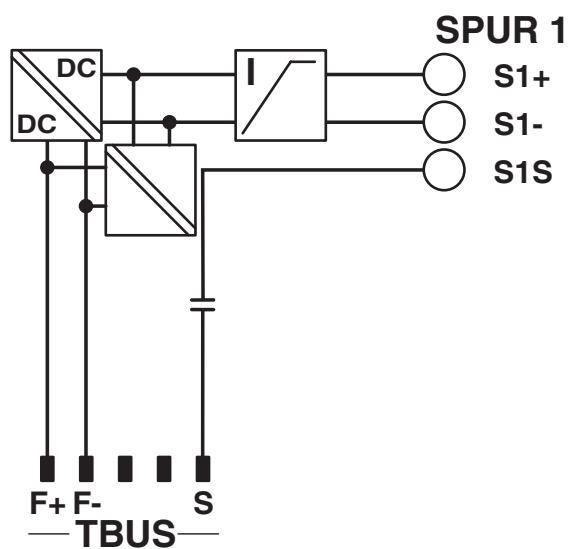
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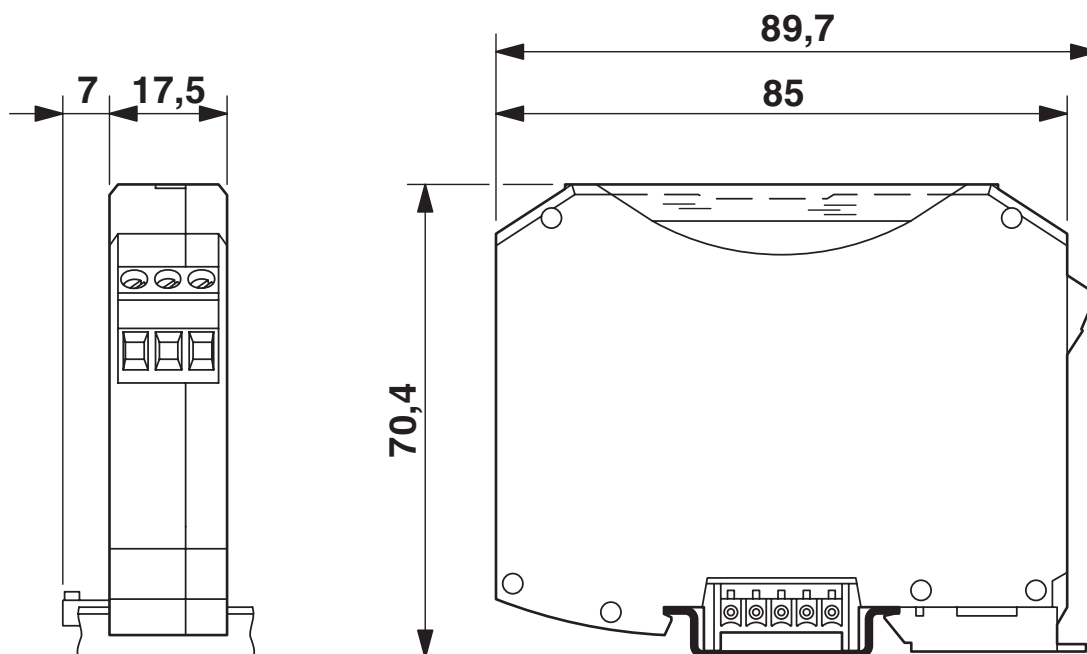


Drawings

Circuit diagram



Dimensional drawing



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Approvals



IECEx

Approval ID: IECEx SIR 10.0015X



CSA

Approval ID: 2424186



CSAus

Approval ID: 2424186



ATEX

Approval ID: Sira 10ATEX2034X

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
EC-type examination certificate			-	-



ATEX

Approval ID: Sira 10ATEX4035X

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Type examination certificate			-	-

cCSAus

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Classifications

ECLASS

ECLASS-9.0	27242610
ECLASS-10.0.1	27242610
ECLASS-11.0	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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Accessories

Power supply

Power supply - FB-PS-25/0.36A - 2316035

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Isolated Foundation Fieldbus Power Supply with integrated Terminator. Multiple single channel modules can be installed using Phoenix Contacts TBUS connector system reducing wiring and installation costs.

Surge protection plug

Surge protection plug - PT 1X2-24AC-ST - 2856058

<https://www.phoenixcontact.com/us/products/2856058>



PT protective connector with protective circuit for a 2-wire floating signal circuit. HART-compatible.

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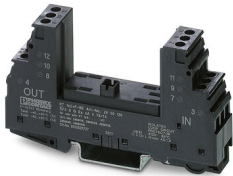
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Surge protection base-element

Surge protection base-element - PT 1X2+F-BE - 2856126

<https://www.phoenixcontact.com/us/products/2856126>



Base element for protective plug PT with protective circuit for a 2-core floating signal circuit. Integrated gas arrester as coarse protection between GND and PE. Mounting on NS 35/7.5 und NS 35/15, housing width: 17.5 mm.

Control cabinet

Control cabinet - FB- 8-ENCL - 2316093

<https://www.phoenixcontact.com/us/products/2316093>



Enclosure for Foundation Fieldbus and PROFIBUS PA. 8 ports with glands.

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Control cabinet

Control cabinet - FB-13-ENCL - 2316103

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Enclosure for Foundation Fieldbus and PROFIBUS PA. 11 ports with glands and 2 plugged ports.

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