

FB-PS-PLUG-24DC/28DC/0.5/EX - Power module



2316132

<https://www.phoenixcontact.com/us/products/2316132>

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Power supply plug for fieldbus system in hazardous locations. Provides 500 mA @ 28 V DC to couplers along the trunk.

Commercial data

Item number	2316132
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN11
Product key	DNC1Z1
GTIN	4046356619981
Weight per piece (including packing)	250 g
Weight per piece (excluding packing)	218 g
Customs tariff number	85044083
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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Input data

Input voltage	24 V DC
Nominal input voltage range	18.5 V DC ... 30.5 V DC
Input voltage range DC	18.5 V DC ... 30.5 V DC
Short-term input voltage	24 V DC

Output data

Output voltage range	28 V DC ... 30 V DC (on the trunk)
Nominal output current (I_N)	500 mA
Output power	13.5 W
Power dissipation	4 W (typical)
Connection in parallel	yes, for redundancy
Connection in series	no

Connection data

Output

Connection method	Plug-in connection
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Product properties

Product type	Power supply
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Dimensions

Dimensional drawing	
Width	17.5 mm
Height	117.6 mm
Depth	115 mm

Mounting

Assembly note	Plug-in connections may only be operated only when there is no load/voltage.
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (non-condensing)

Standards and regulations

Standards

Standards/regulations	NE21
	EN 61326
Standards/specifications	Ring wave noise immunity in acc. with IEC 61000-4-12
Standards/specifications	Dry heat in acc. with IEC 61131-2
Standards/specifications	Damp heat in acc. with IEC 61131-2
Standards/specifications	Shock and vibration in acc. with EN 61131-2 and EN 50178
Standards/specifications	IEC 61158-2

Approvals

Conformity/Approvals

Fieldbus Foundation	FF-831
EN	EN 61326
NE	NAMUR NE 21

Ex data

ATEX	Sira 11ATEX4216X; II 3 G Ex nA nC IIC T4 Gc
IECEX	IECEX SIR 11.0097X; Ex nA nC IIC T4 Gc
CSA, USA/Canada	Class I, Div. 2, Groups A, B, C, D; Ex nA nC IIC T4 Class I, Zone 2, AEx nA nC IIC T4

Ex data

Safety data

Input voltage U_i	30.5 V DC (input power)
Input current I_i	850 mA (input power)
Inductance L_i	17.6 mH (trunk and host)
Max. output voltage U_o	30 V DC (trunk and host)

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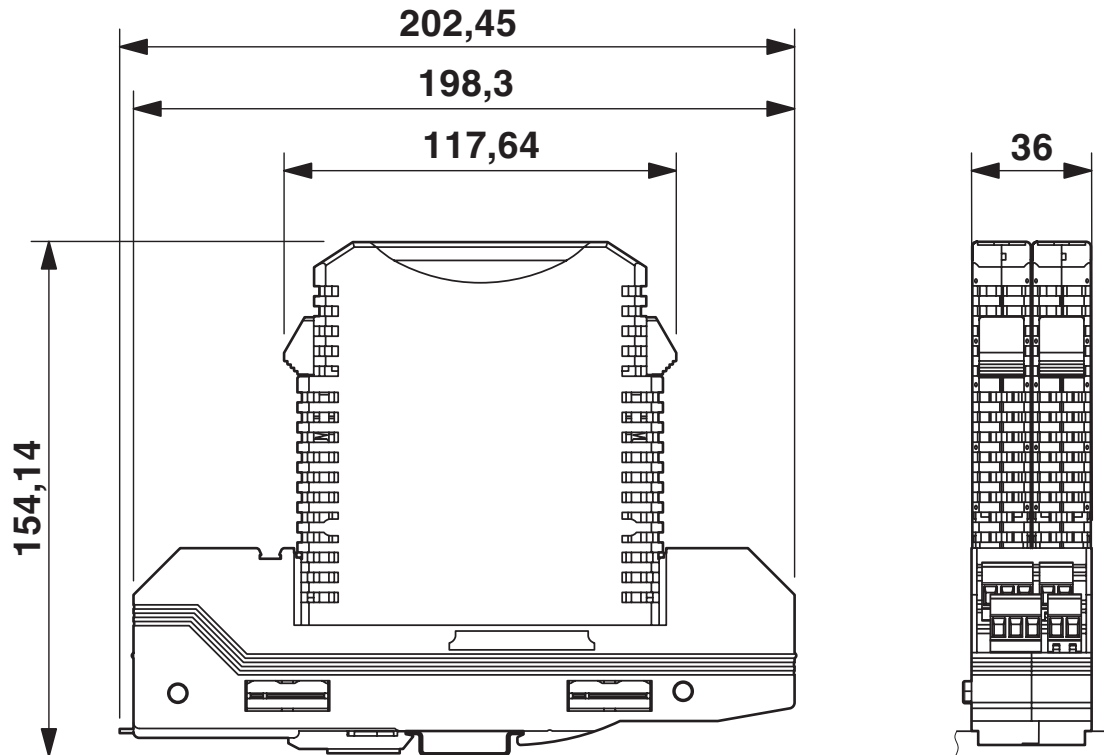


2316132

<https://www.phoenixcontact.com/us/products/2316132>

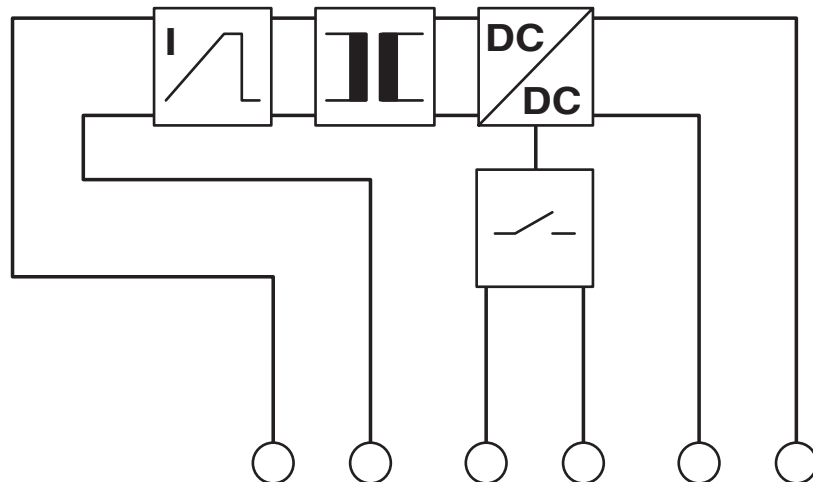
Drawings

Dimensional drawing



Power supply base and plug

Block diagram



Connection diagram: FB-PS-PLUG-24DC/28DC/0.5/EX

2316132

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2316132>



EAC

Approval ID: RU C-DE.A*30.B.01082



IECEX

Approval ID: IECEx SIR 11.0097X



CSA

Approval ID: 2431654



CSAus

Approval ID: 2431654



ATEX

Approval ID: Sira 11ATEX4216X



CCC

Approval ID: 2022122303115621

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Classifications

ECLASS

ECLASS-13.0

27242611

ETIM

ETIM 9.0

EC002583

UNSPSC

UNSPSC 21.0

32151600

2316132

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	ce0d6386-8850-4746-8134-f007870932ad

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com