

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



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 619981
GTIN	4046356619981
Weight per Piece (excluding packing)	228.000 g
Custom tariff number	85044082
Country of origin	United States

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	117.6 mm
Depth	115 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C

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Ambient conditions

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

Input data

Nominal input voltage	24 V DC
Nominal input voltage range	18.5 V DC ... 30.5 V DC

Output data

Output voltage range	28 V DC ... 30 V DC (on the trunk)
Nominal output current (I_N)	500 mA
Connection in parallel	Yes, for redundancy
Connection in series	No
Output power	13.5 W

General

Net weight	181 g
Degree of protection	IP20
Assembly instructions	Plug-in connections may only be operated only when there is no load/voltage.

Connection data, output

Connection method	Plug connection
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Signaling

Output name	Power OK
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Safety data

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

Standards and Regulations

Standards/regulations	Ring wave noise immunity in acc. with IEC 61000-4-12
	Dry heat in acc. with IEC 61131-2
	Damp heat in acc. with IEC 61131-2
	Shock and vibration in acc. with EN 61131-2 and EN 50178
	IEC 61158-2
Type of test	Corrosive resistance in acc. to ANSI-ISA 71.04-1985 - Severity level G3

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Standards and Regulations

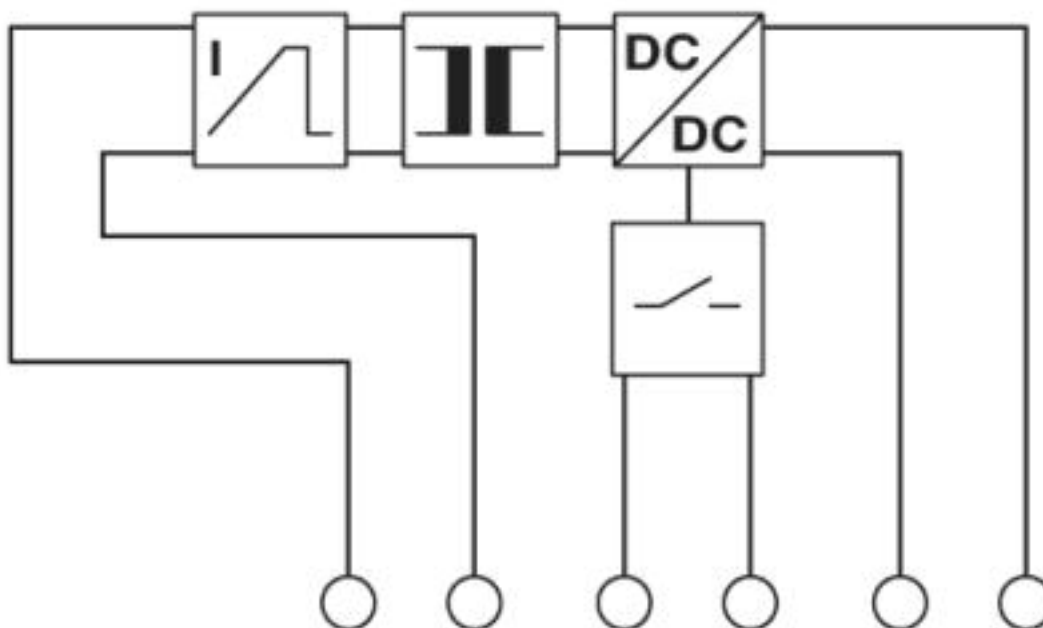
Standards/regulations	NE21
	EN 61326
Fieldbus Foundation	FF-831
ATEX	Sira 11ATEX4216X; II 3 G Ex nA nC IIC T4 Gc
IECEX	IECEX SIR 11.0097X; Ex nA nC IIC T4 Gc
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Environmental Product Compliance

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"

Drawings

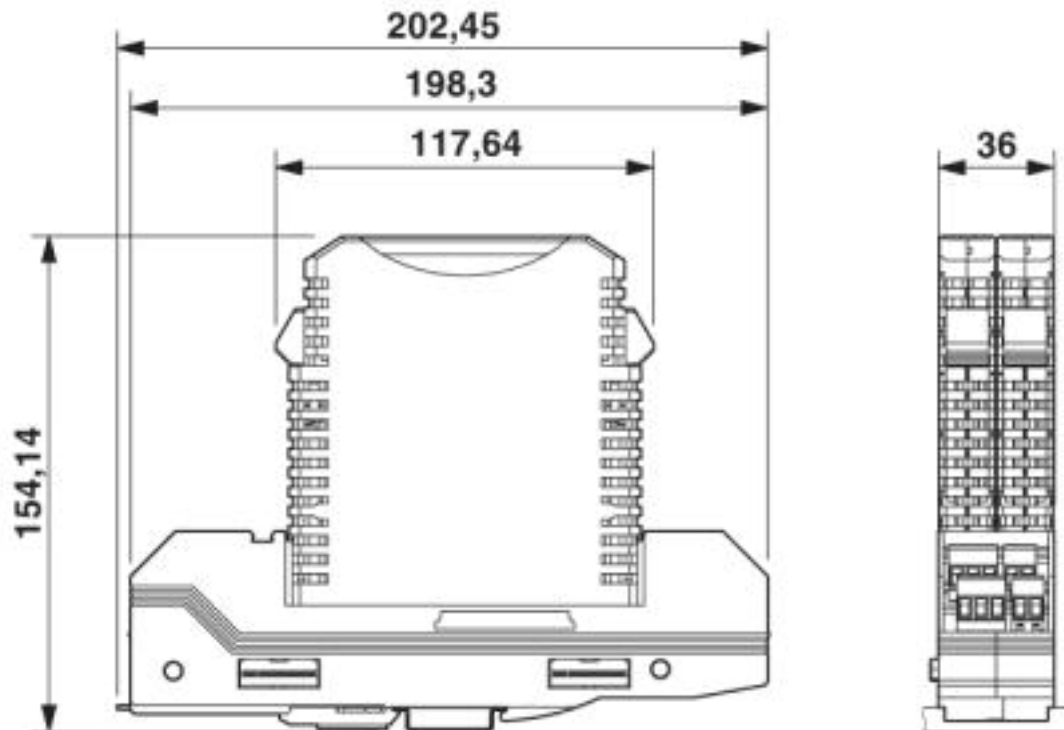
Block diagram



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

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Dimensional drawing



Power supply base and plug

Classifications

eCl@ss

eCl@ss 4.0	27250300
eCl@ss 4.1	27250300
eCl@ss 5.0	27242200
eCl@ss 5.1	27242200
eCl@ss 6.0	27242600
eCl@ss 7.0	27242611
eCl@ss 8.0	27242611
eCl@ss 9.0	27242611

ETIM

ETIM 3.0	EC000310
ETIM 4.0	EC000599
ETIM 5.0	EC002583
ETIM 6.0	EC002583

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Classifications

ETIM

ETIM 7.0	EC002583
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UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	43201553

Approvals

Approvals

Approvals

EAC

Ex Approvals

IECEX / ATEX / CSA / CSAus / cCSAus

Approval details

EAC		RU C- DE.A*30.B.01082
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Accessories

Additional products

Power distributor - FB-PS-BASE/EX - 2316145



Base for fieldbus power supply plugs. Provides redundancy when 2 plugs are installed. Redundancy is maintained across multiple bases via internal power buses. Additional internal bus provides remote indication.

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Accessories

Power supply unit - FB-PS-MB-25DSUB/EX - 2316146



Four-channel, redundant fieldbus power supply base. Host connection is a D-SUB 25 socket connector.

Power supply unit - FB-PS-MB-Y/EX - 2316148



Four-channel redundant fieldbus power supply base. Host connections are for two Yokogawa AKB336 20-pin cables.

Power supply unit - FB-PS-MB-I/EX - 2316149



Four-channel, redundant fieldbus power supply base. Host connection is for an Invensys® D-SUB 25 cable.
