



Fieldbus Power Hub, Power Supply Module



HD2-FBPS-1.500

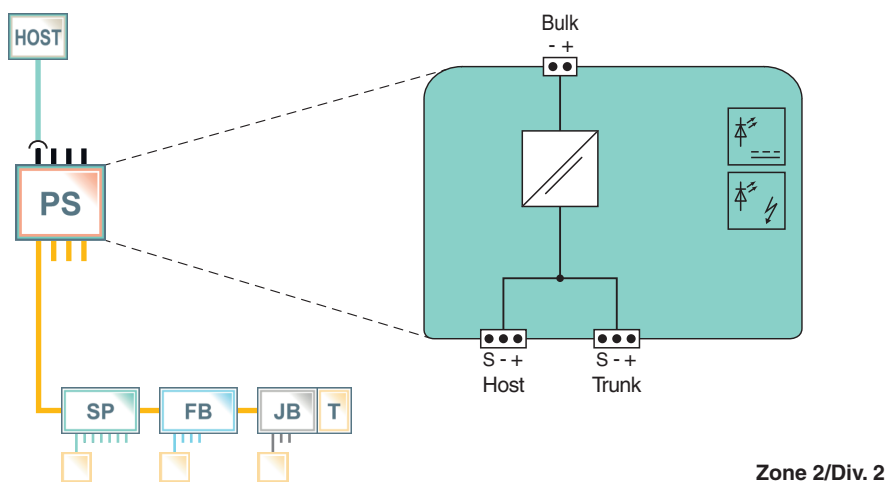
- Output: 28 ... 30 V/500 mA
- High-power trunk for high device count and long cable lengths
- With galvanic isolation
- Installation in Zone 2/Class I, Div. 2
- For FOUNDATION Fieldbus H1 and PROFIBUS PA
- High efficiency, low heat dissipation for high packing density
- Hot swappable in redundant configuration
- Module exchange without tools during operation



Function

This Power Supply Module is a system component for the FieldConnex® Power Hub and can be plugged into the motherboard. It adapts current and voltage for the supply of fieldbus segments and field devices. This power supply features the highest output power and allows for maximum cable lengths and highest number of devices in hazardous areas with the High-Power Trunk concept. Reliability of communication is enhanced through galvanic isolation between segment and bulk power supply. Two LEDs indicate power and status. In redundant configuration two modules are connected in parallel via simple circuits ensuring seamless operation.

Connection



Technical Data

General specifications

Design / Mounting Motherboard based

Supply

Rated voltage	U_r	19.2 ... 35 V DC
Rated current	I_r	910 ... 490 mA
Power dissipation		typ. 1.8 W

Fieldbus connection

Rated voltage	U_N	28 ... 30 V
Rated current	I_N	500 ... 10 mA
Short-circuit current		550 mA

Indicators/operating means

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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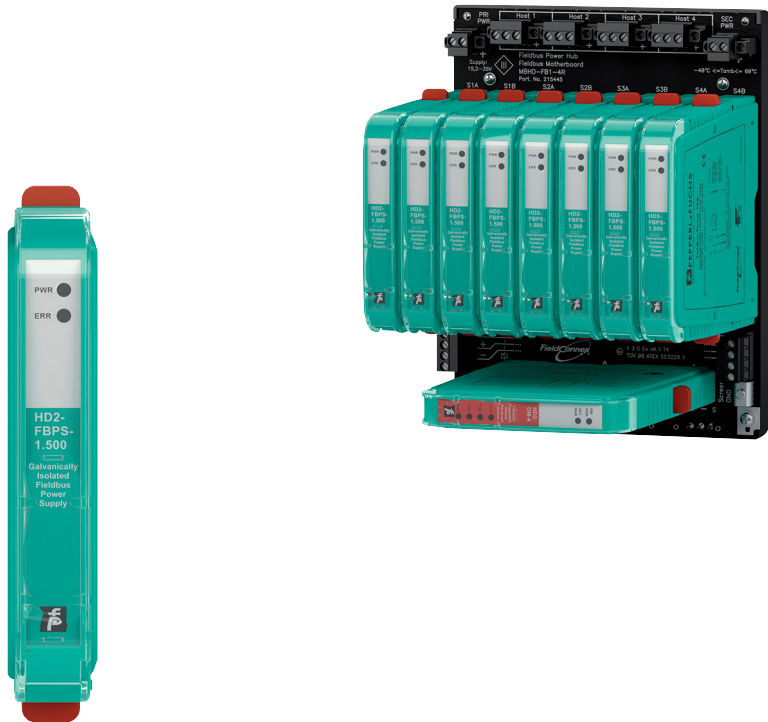
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Technical Data

LED ERR	red flashing: short-circuit or undervoltage at output		
LED PWR	green if $U_{out} > 28\text{ V}$		
Galvanic isolation			
Fieldbus segment/Supply	functional insulation acc. to IEC 62103, rated insulation voltage 250 V AC		
Directive conformity			
Electromagnetic compatibility			
Directive 2014/30/EU	EN 61326-1:2013		
Standard conformity			
Electromagnetic compatibility	NE 21:2011		
Degree of protection	IEC 60529		
Fieldbus standard	IEC 61158-2		
Shock resistance	EN 60068-2-27		
Vibration resistance	EN 60068-2-6		
Ambient conditions			
Ambient temperature	-40 ... 70 °C (-40 ... 158 °F)		
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)		
Relative humidity	< 95 % non-condensing		
Shock resistance	15 g 11 ms		
Vibration resistance	1 g , 10 ... 150 Hz		
Pollution degree	max. 2, according to IEC 60664		
Corrosion resistance	acc. to ISA-S71.04-1985, severity level G3		
Mechanical specifications			
Connection type	motherboard specific		
Core cross section	motherboard specific		
Housing material	Polycarbonate		
Housing width	18 mm		
Housing height	106 mm		
Housing depth	128 mm		
Degree of protection	IP20		
Mass	approx. 150 g		
Mounting	motherboard mounting		
Data for application in connection with hazardous areas			
Outputs			
Voltage	U_o	32 V	
Certificate	TÜV 04 ATEX 2500 X		
Marking	⊕ II 3 G Ex nA IIC T4 Gc		
Directive conformity			
Directive 2014/34/EU	EN 60079-0:2012 , EN 60079-11:2012 , EN 60079-15:2010		
International approvals			
FM approval			
FM certificate	FM 19 US 0015 X and FM 19 CA 0011 X		
FM marking	AEx/Ex ec IIC T4		
IECEX approval			
IECEX certificate	IECEX TUN 13.0038X		
IECEX marking	Ex nA IIC T4 Gc		
Certificates and approvals			
Marine approval	pending		
General information			
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com .		

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Assembly



Matching System Components

	<p>FBTA-228-BPFB-8</p>	<p>Universal Fieldbus Power Hub, Motherboard for Invensys FBM 228</p>
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