

- · Output: bulk power voltage 500 mA
- High-Power Trunk concept for maximum devices and long cable runs
- · Without galvanic isolation
- Installation in Zone 2/Class I, Div. 2
- For PROFIBUS PA and FOUNDATION fieldbus H1
- · Very low heat dissipation
- Hot swappable in redundant configuration
- Module exchange without tools while the system is energized

Function

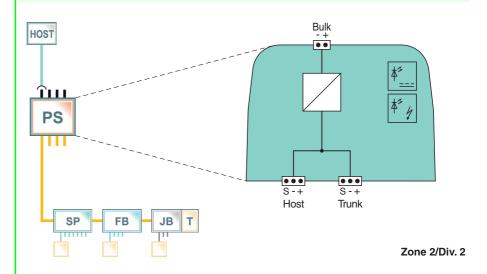
The Power Supply Module HD2-FBCL-1.500 is a system component of the FieldConnex Power Hub. It adapts the current for the supply of fieldbus field devices. Depending on the input voltage it allows to supply a multitude of devices in wide-spread fieldbus topologies. High-Power Trunk Topologies can be installed in safe areas, in Zone 2/Class I, Div. 2 in conjunction with Segment Protectors for device connections Ex nL and in Zone 1/Class I, Div. 1 with FieldBarrier for device connections Ex ia.

Furthermore a short-circuit current limitation for the host connection is integrated.

The module can be plugged onto the different Power Hub motherboards in combination with various other modules.

The complete overview of the Power Hub system you will find on the data sheet MB-FB-System. For details on individual modules please refer to the respective module data sheets.

Connection



Composition



FOUNDATION

Fieldbus Power Hub, Power Conditioner Module





Fieldbus Power Hub, Motherboard fully equipped with Diagnostics Module and Power Conditioner Modules

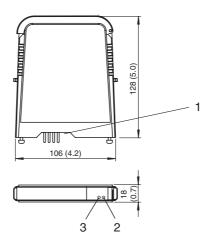
| Supply | |
|---|--|
| Rated voltage | 19.2 32 V DC |
| Power loss | max. 0.8 W |
| Fieldbus interface | |
| Rated voltage | supply voltage minus ≤ 2.5 V at full load |
| Rated current | 0 500 mA |
| Short-circuit current | 600 mA |
| Host-rated current | 0 40 mA |
| Host short-circuit current | 0 55 mA |
| Terminating impedance | motherboard specific |
| Indicators/operating means | motherboard specific |
| LED ERR | red flashing: short-circuit or undervoltage at output |
| LED PWR | |
| | green if U _{out} > 16 V |
| Directive conformity | |
| Electromagnetic compatibility | EN 04000 4-0000 |
| Directive 2004/108/EC | EN 61326-1:2006 |
| Standard conformity | |
| Electromagnetic compatibility | NE 21:2006 |
| Protection degree | IEC 60529 |
| Fieldbus standard | IEC 61158-2 |
| Shock resistance | EN 60068-2-27 |
| Vibration resistance | EN 60068-2-6 |
| Ambient conditions | |
| Ambient temperature | -40 60 °C (-40 140 °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 |
| 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 |
| Protection degree | IP20 |
| Mass | approx. 70 g |
| Mounting | motherboard mounting |
| Coating | conformal coated |
| Data for application in connection with Ex-areas | Comonnai Coulou |
| Statement of conformity | TÜV 04 ATEX 2500 X |
| - | (€x) II 3G EEx nA II T4 |
| Group, category, type of protection, temperature classification | (X) II 3G EEX IIA II 14 |
| Directive conformity | |
| Directive 94/9/EC | EN 60079-15:2003 |
| International approvals | |
| FM approval | CoC 3024816, CoC 3024816C |
| Approved for | Class I, Division 2, Groups A, B, C, D, T4 / Class I, Zone 2, AEx/Ex nA IIC T4 |

Supplementary information

Statement of Conformity, Declaration of Conformity and instructions have to be observed. For information see www.pepperl-fuchs.com.

Technical data HD2-FBCL-1.500

Dimensions



Description:

- 1 Plug connections to motherboard
- 2 LED PWR (Power)
- 3 LED ERR (Error)

All dimensions in millimeters and inches (values in brackets) and without tolerance indication.

For dimensions of the mounted system, please refer to the corresponding motherboard data sheet.

Installation note

see manual

Accessories

see motherboard or system data sheet