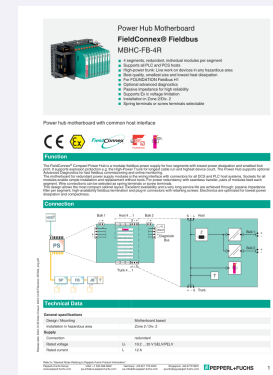


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

Pepperl+Fuchs MBHC-FB-4R
Fieldbus Power Hub Motherboard



PRODUCT	MBHC-FB-4R
FAMILY	FieldConnex Fieldbus
FUNCTION	Fieldbus Power Hub Motherboard
STATUS	Verify exact configuration

Prepared by Amikon Limited from Pepperl+Fuchs product record 83423; PDS 267022; TDOCT-3940. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

01 CONFIRM THE ORDERED CONFIGURATION

Product type	Power hub motherboard
Fieldbus	FOUNDATION Fieldbus H1
Host interface	General-purpose host
Segments	4 with redundant power supply
Rated supply	19.2-35 V SELV/PELV
Rated current	12 A
Segment termination	Integrated 100 ohm

02 MOUNTING AND CONNECTION

- Verify the exact MBHC-FB-4R order code and inspect the motherboard for damage or contamination.
- Mount the motherboard on a suitable DIN rail inside an enclosure appropriate for the installation area.
- Connect only approved FieldConnex power and diagnostic modules in their designated positions.
- Use conductors up to the specified 2.5 mm² cross section and observe the documented stripping length and screw torque.
- For redundant operation, fit two power modules of the same type on each powered segment.

OFFICIAL INSTALLATION REFERENCE



Power Hub Motherboard
FieldConnex® Fieldbus
MBHC-FB-4R

- 4 segments, redundant, individual modules per segment
- Supports all PLC and PCS hosts
- High-power trunk: Live work on devices in any hazardous area
- Best quality, smallest size and lowest heat dissipation
- For FOUNDATION Fieldbus H1
- Optional advanced diagnostics
- Passive impedance for high reliability
- Supports Ex ic voltage limitation
- Installation in Zone 2/Div. 2
- Spring terminals or screw terminals selectable

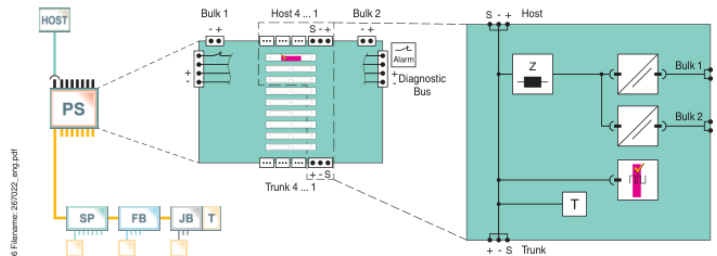
Power hub motherboard with common host interface



Function

The FieldConnex® Compact Power Hub is a modular fieldbus power supply for four segments with lowest power dissipation and smallest foot print. It supports explosion protection e.g. the High-Power Trunk for longest cable run and highest device count. The Power Hub supports optional Advanced Diagnostics for fast fieldbus commissioning and online monitoring. The motherboard for redundant power supply modules is the wiring interface with connectors for all DCS and PLC host systems. Sockets for all modules enable simple installation and replacement without tools. For power redundancy with seamless transfer, pairs of modules feed each segment. Wire connections can be selected as spring terminals or screw terminals. This design allows the most compact cabinet layout. Excellent availability and a very long service life are achieved through: passive impedance filter per segment, high-availability fieldbus termination and plug-in connectors with retaining screws. Electronics are optimized for lowest power dissipation and compactness.

Connection



Technical Data

General specifications	
Design / Mounting	Motherboard based
Installation in hazardous area	Zone 2 / Div. 2
Supply	
Connection	redundant
Rated voltage	U _i 19.2 ... 35 V SELV/PELV
Rated current	I _i 12 A

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

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CABLE ROUTING AND CONNECTION

- Mount the motherboard on a suitable DIN rail inside an enclosure appropriate for the installation area.
- Connect only approved FieldConnex power and diagnostic modules in their designated positions.
- Use conductors up to the specified 2.5 mm² cross section and observe the documented stripping length and screw torque.
- For redundant operation, fit two power modules of the same type on each powered segment.
- Complete host, segment, grounding, and alarm-contact checks before applying power.

05

INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Confirm normal indications and fault-contact state after commissioning.
- Record the installed order number and baseline operating condition.

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CONTROLLED DOCUMENTS

Official source	Pepperl+Fuchs product record 83423; PDS 267022; TDOCT-3940
Product record	MBHC-FB-4R
Manufacturer	Pepperl+Fuchs
Support	INFO@AMIKON.CN