

PEPPERL+FUCHS TECHNICAL DOCUMENT

Product Data Sheet

MBHC-FB-4R

01

PRODUCT IDENTIFICATION

Manufacturer	Pepperl+Fuchs
Model	MBHC-FB-4R
Family	FieldConnex Fieldbus
Product type	Fieldbus Power Hub Motherboard

02

VERIFIED TECHNICAL DATA

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
Fault contact	1 A at 50 V DC, normally closed

03 REMAINING TECHNICAL DATA

Protection	IP20
Ambient temperature	-40 to 70 deg C
Mounting	DIN rail
Mass	Approx. 0.580 kg

04 TECHNICAL AND APPLICATION NOTES

MBHC-FB-4R is a four-segment redundant FieldConnex power hub motherboard with a common host interface. It supports general-purpose PLC and process control system hosts while providing integrated termination and optional diagnostic capability for FOUNDATION Fieldbus H1 segments. The motherboard is designed for DIN-rail installation in Zone 2 or Division 2 environments. Its redundant supply connection, segment isolation, low per-segment power dissipation, and selectable pluggable terminal style support maintainable fieldbus power distribution.

05 APPLICATIONS

- Supplying four FOUNDATION Fieldbus H1 segments
- Connecting fieldbus segments to PLC or process control hosts
- Providing redundant power to individual fieldbus segments
- Supporting live field-device work on hazardous-area trunks
- Adding physical-layer diagnostics to a FieldConnex Power Hub

06 INSTALLATION CONTROL

Verify the exact MBHC-FB-4R order code and inspect the motherboard for damage or contamination. Complete host, segment, grounding, and alarm-contact checks before applying power.