

AMIKON TECHNICAL INTELLIGENCE

Installation Instructions

Pepperl+Fuchs TPH-LBF-IA1.36.DE.1
FieldConnex diagnostic surge protector



FIELDCONNEX SURGE PROTECTOR

RATED VOLTAGE

36 V

RATED CURRENT

600 mA

PROTECTION

IP20

GROUNDING

Direct shield

Prepared by Amikon Limited from the official Pepperl+Fuchs Fieldbus Surge Protector manual. This quick guide does not replace controlled manufacturer instructions or hazardous-area certificates.

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CONFIRM THE ORDERED CONFIGURATION

Model	TPH-LBF-IA1.36.DE.1
Application	Power Hub trunk surge protection
Fieldbus	FOUNDATION Fieldbus H1 / PROFIBUS PA
Voltage / current	36 V / 600 mA
Diagnostic current	6 mA maximum
Protection	IP20; direct shield grounding

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BEFORE INSTALLATION

- Confirm the exact model suffix and the Power Hub type before installation.
- Verify the required hazardous-area approval and protective enclosure.
- De-energize the segment using the controlled plant procedure.
- Check direct shield grounding and cable-screen continuity.
- Do not use this model with DART Power Hub Backplane MBHD-FB-D*.

OFFICIAL CONNECTION AND MOUNTING REFERENCE

The official Pepperl+Fuchs reference below identifies the Power Hub trunk installation arrangement and the applicable surge-protector location.

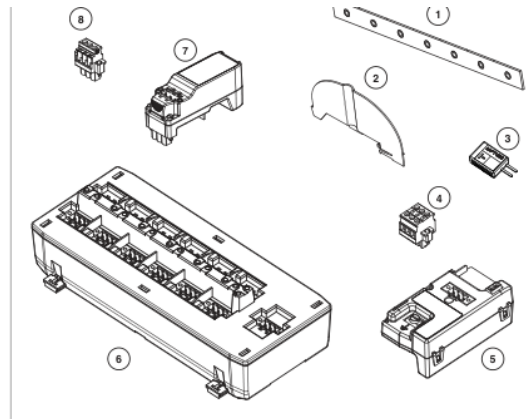


Figure 2.1

- 1 Grounding rail ACC-LBF-EB.6
- 2 Separation wall ACC-LBF-SW
- 3 Terminator M-FT*
- 4 T-connector
- 5 Surge Protector TCP-LBF-IA1.36.IE*
- 6 Segment Protector R2-SP-* or R3-SP-*
- 7 Surge Protector SCP-LBF-IA1.36.IE*
- 8 Spur connector

The Surge Protector TCP-LBF-IA1.36.IE* mounts on the trunk connection of the Segment Protector. See chapter 3.2.1

The Surge Protector SCP-LBF-IA1.36.IE* mounts on the spur connection of the Segment Protector. Use 1 Surge Protector for each spur terminal. See chapter 3.2.2

Install the TPH device between the Power Hub and the trunk cable. Maintain separation between protected and unprotected wiring and preserve the specified direct shield-grounding path.

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MOUNTING AND CONNECTION

- Insert the pluggable protector at the specified Power Hub trunk connection.
- Use the specified screw terminals and conductor requirements.
- Maintain grounding, segregation and enclosure protection for the installation.
- Confirm the segment voltage and connected load remain within rated limits.
- Inspect terminals and shield continuity before restoring power.

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INITIAL SETUP AND SYSTEM CHECKS

- Restore power only after wiring, grounding and enclosure checks are complete.
- Verify that the green flashing LED indicates normal diagnostic status.
- Treat a red flashing LED as a maintenance-required condition.
- Confirm stable fieldbus communication and record the commissioning result.
- Replace a damaged surge protector; do not attempt a field repair.

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CONTROLLED DOCUMENTS

Manufacturer manual	Pepperl+Fuchs Fieldbus Surge Protector
Exact variant	TPH-LBF-IA1.36.DE.* technical data and certificates

Always obtain the current Pepperl+Fuchs manual, approval certificates and Power Hub documentation before installation or replacement.