Features

- 2-channel
- Plugs directly in to field side of KF modules
- · Analog or digital signal inputs
- Surge protection up to 10 kA
- Protects leads 1, 2, 4 and 5 of KF modules
- Uninterruptable operation (auto reset)

Function

This Surge Protection Barrier is designed for use with K-System (KF modules).

By simply snapping the barriers into a standard KF module, the modules are safely protected against voltage surges of different origin (e. g. lightning stroke, switching impulse, etc.). This is achieved by diverting the transient current to ground and limiting the signal line voltage to a safe level for the duration of the surge.

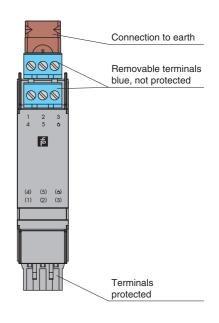
The end digits of the model designation correspond to the protected terminals of the respective KF module.

For additional information, refer to the manual and www.pepperl-fuchs.com.

Note: Surge Protection Barriers must always be connected to a solid and effective ground and be at the same equipotential level as the instrument it is protecting. The ground system must comply with all applicable regulations.

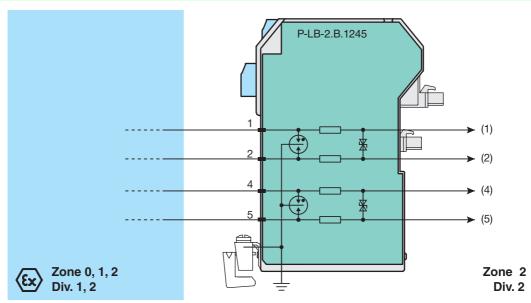
Assembly

Front view



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Connection



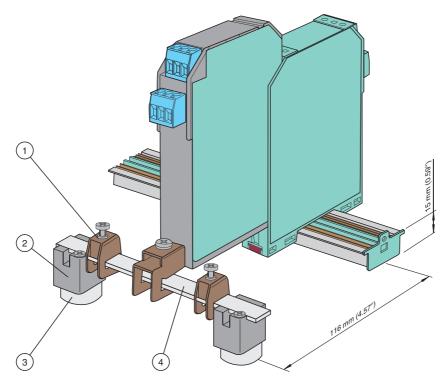
| Signal lines | | |
|---|--------------------|--|
| Connection | | terminals 1, 2; 4, 5 |
| Rated voltage | | ≤ 30 V |
| Rated current | | ≤ 250 mA |
| Leakage current | | ≤ 5 µA |
| On-state voltage | | ≤ 45 V |
| Ground insulation | | ≤ 500 V breakdown voltage |
| Conformity | | |
| Protection degree | | IEC 60529 |
| Ambient condition | ons | |
| Ambient temperature | | -20 60 °C (-4 140 °F) |
| Mechanical spec | cifications | |
| Protection degree | | IP20 |
| Mass | | approx. 70 g |
| Dimensions | | 20 x 62 x 115 mm (0.8 x 2.4 x 4.5 in) |
| Data for applicat | tion in connection | |
| with Ex-areas | | |
| EC-Type Examination Certificate | | PTB 02 ATEX 2044 , for additional certificates see www.pepperl-fuchs.com |
| Group, category, type of protection | | ⟨x⟩ II (1)G [EEx ia] IIC |
| Voltage | Uo | ≤ 30 V |
| Current | l _i | ≤ 250 mA |
| Power | P_{o} | ≤ 1.3 W |
| Maximum leakag | e current | 10 kA (8/20 μs) per conductor |
| Nominal response | e time | |
| Symmetrical | | 1 ns |
| Asymmetric | | 100 ns |
| Series resistor | | \leq 0.5 Ω per wire |
| Bandwidth | | ≥ 40 kHz |
| Declaration of conformity | | Pepperl+Fuchs |
| Group, category, type of protection, temperature classification | | ⟨x⟩ 3G EEx nA T6 |
| Directive conform | | |
| Directive 94/9/EC | | EN 50014, EN 50020, EN 50021 |
| International app | provals | |
| CSA approval | | |
| Control drawing | | 116-0187 (cCSAus) |
| General informa | <u> </u> | |
| Supplementary information | | EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com. |

3 Spacing roller when mounting on 35 mm DIN EN 60715 mounting rail:

- installation height 15 mm: spacing roller ZH-Z.AR.85

- installation height 7.5 mm: no spacing roller necessary

4 Grounding rail ZH-Z.NLS-Cu3/10



Keep the drilling distance of 116 mm between center mounting rail and center grounding bar.