Features

- 1-channel
- · Plugs directly in to field side of KF modules
- · Analog or digital signal inputs
- · Surge protection up to 10 kA
- · Protects leads 1 and 3 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.

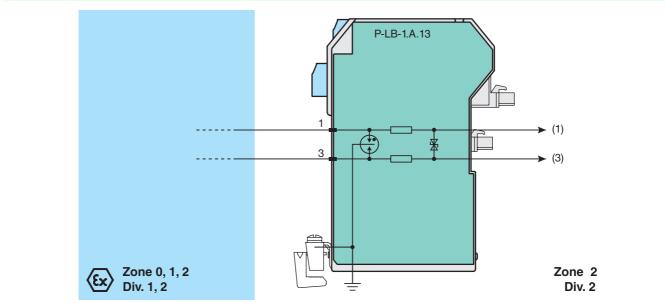


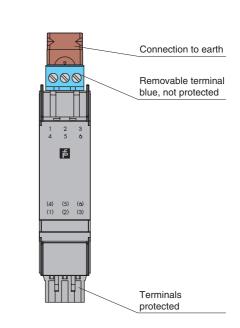
Assembly

Front view



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Technical data

| Signal lines | |
|---|--|
| Connection | terminals 1, 3 |
| 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 conditions | |
| Ambient temperature | -20 60 °C (-4 140 °F) |
| Mechanical specifications | |
| 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 application 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 | 🐼 II (1)G [EEx ia] IIC |
| Voltage U _o | ≤ 30 V |
| Current I _i | ≤ 250 mA |
| Power Po | ≤ 1.3 W |
| Maximum leakage current | 10 kA (8/20 μs) per conductor |
| Nominal response 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 | 🐼 II 3G EEx nA II T6 |
| Directive conformity | |
| Directive 94/9/EC | EN 50014, EN 50020, EN 50021 |
| International approvals | |
| CSA approval | |
| Control drawing | 116-0187 (cCSAus) |
| General information | |
| 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. |

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Technical data

Accessories

| 1 Connection terminal | ZH-Z.AK16 |
|-----------------------|---|
| 2 Mounting block | ZH-Z.AB/SS |
| 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 |
| | termination |

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

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