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, 2, 3 and 4 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.

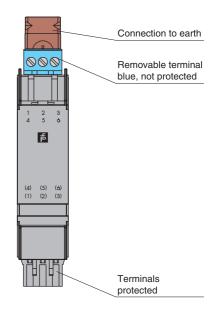
The end digits of the model designation correspond to the protected terminals of the respective KF module.

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.

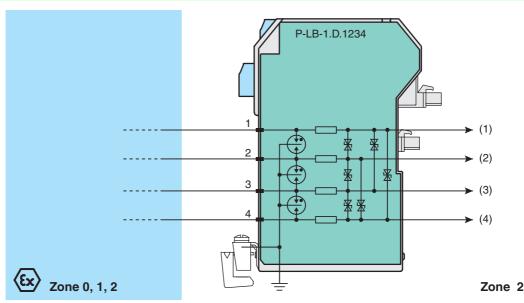
Assembly

Front view



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Connection



General specifications		
Number of protected signal lines		4
Signal lines		
Connection		terminals 1, 2, 3, 4
		≤ 30 V
Rated voltage	U _B	≤ 250 mA
Rated current	I _B	
Leakage current		≤5 μA
On-state voltage		≤ 45 V
Ground insulation		≤ 500 V breakdown voltage
Conformity		150 come cont
Degree of protection		IEC 60529:2001
Ambient conditions		
Ambient temperature		-20 60 °C (-4 140 °F)
Mechanical specifications		
Degree of protection		IP20
Mass		approx. 70 g
Dimensions		20 x 62 x 115 mm (0.8 x 2.4 x 4.5 inch)
Mounting		on the KF module
Data for application in connection		
with hazardous areas		
EU-Type Examination Certificate		PTB 02 ATEX 2044
Marking		(x) II (1)G [Ex ia Ga] IIC
Voltage	U _i	30 V
Current	l _i	250 mA
Internal capacitance	Ci	negligible
Internal inductance	L _i	300 μH
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
Certificate		PF 16 CERT 3908 X
Marking		⟨x⟩ II 3G Ex nA IIC T4 Gc
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010
International approvals		
IECEx approval		
IECEx certificate		IECEx BAS 12.0123
IECEx marking		[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
Standards		IEC 60079-0:2011 , IEC 60079-11:2011
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For



information see www.pepperl-fuchs.com.

Accessories

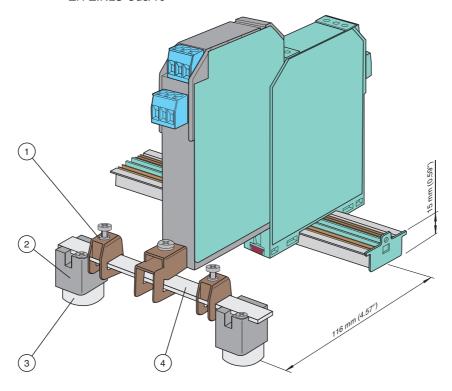
1 Connection terminal2 Mounting blockZH-Z.AK16ZH-Z.AB/SS

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



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