

Surge Protection Barrier P-LB-2.A.1346

- 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, 3, 4 and 6 of KF modules
- Uninterruptable operation (auto reset)
- Up to SIL 3 acc. to IEC/EN 61508











Function

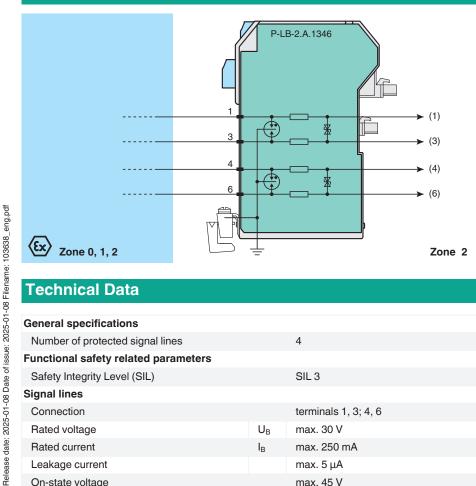
This Surge Protection Barrier is designed for use with K-System (KF modules).

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.

Connection



Technical Data

General specifications		
Number of protected signal lines		4
Functional safety related parameters		
Safety Integrity Level (SIL)		SIL 3
Signal lines		
Connection		terminals 1, 3; 4, 6
Rated voltage	U_B	max. 30 V
Rated current	I_B	max. 250 mA
Leakage current		max. 5 μA
On-state voltage		max. 45 V

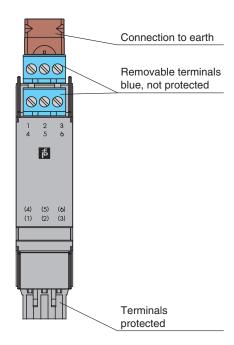
Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

	max. 500 V breakdown voltage		
	IEC 60529:2001		
	-20 60 °C (-4 140 °F)		
	IP20		
	approx. 70 g		
	20 x 104 x 127 mm (0.8 x 4.1 x 5 inch) (W x H x D)		
	on the KF module		
Data for application in connection with hazardous areas			
	PTB 02 ATEX 2044		
Ui	30 V		
l _i	250 mA		
C_{i}	negligible		
Li	200 μΗ		
	10 kA (8/20 μs) per conductor		
	1 ns		
	100 ns		
	\leq 0.5 Ω per wire		
	≥ 40 kHz		
	PF 16 CERT 3908 X		
	Il 3G Ex nA IIC T4 Gc		
	EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010		
	IECEx BAS 12.0123		
	[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I		
	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.		
	U _i I _i C _i		



Assembly

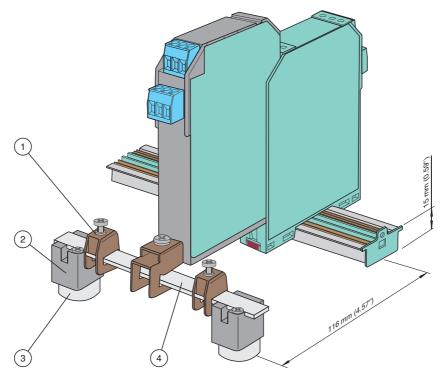
Front view



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

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