

Features

- 1-channel
- Field mount module
- PG13.5 thread
- Stainless steel housing
- Max. surge current (8/20 μ s) 20 kA
- 500 V isolation from earth
- Suitable for hazardous area

Function

This Surge Protection Barrier limits induced transients 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.

This barrier provides 85 V line-to-line and 500 V line-to-ground clamping voltage for the protected instruments. It also protects instruments that have less than 500 V isolation-to-ground.

It is installed in an available conduit or cable gland opening like those found on most process transmitters.

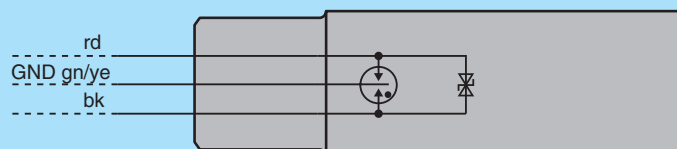
For additional information, refer to the manual and www.pepperl-fuchs.com.


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



Connection



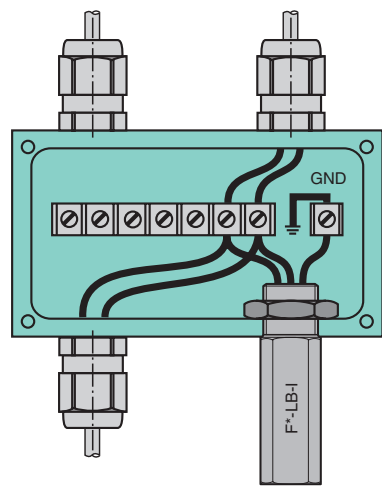
General specifications		
Number of protected signal lines		1
Supply		
Rated voltage	U_r	$\leq 48\text{ V}$
Rated current	I_r	$\leq 250\text{ mA}$
Leakage current		$\leq 5\text{ }\mu\text{A}$
On-state voltage		$\leq 85\text{ V}$
Ground insulation		$\geq 500\text{ V}$ breakdown voltage
Electrical specifications		
Total discharge current (8/20 μs) I_{total}		20 kA
Conformity		
Degree of protection		IEC 60529:2001
Ambient conditions		
Ambient temperature		-30 ... 60 °C (-22 ... 140 °F) For usage in hazardous area observe EC-type examination certificate.
Mechanical specifications		
Housing material		Stainless steel 1.4401 (AISI 316) surface all over polished
Degree of protection		IP67
Cable		
Length	L	0.3 m
Mass		approx. 200 g
Dimensions		AF22 x 77 mm (0.9 x 3 inch)
Mounting		PG13.5 thread
Data for application in connection with hazardous areas		
EU-Type Examination Certificate		PTB 00 ATEX 2175
Marking		 II 2G EEx ia IIC T6
Voltage	U_i	50 V
Type of protection [EEx ia and EEx ib]		
Maximum leakage current		10 kA line to ground (common), 5 kA line to line (differential) in accordance to IEC 60-2
Nominal response time		
Symmetrical		1 ns
Asymmetric		100 ns
Bandwidth		$\geq 40\text{ kHz}$
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2012+A11:2013 , EN 60079-11:2012
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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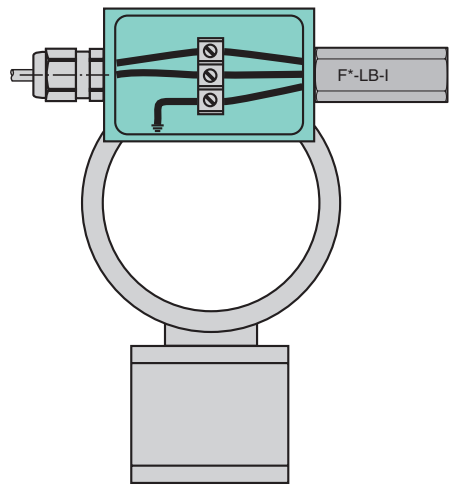
Additional information

Installation examples

Terminal box



Transmitter



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

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