

Features

- 2-channel
- DIN rail mount module
- For 30 V IS or Non-IS applications
- Protects field or control circuit inputs
- Max. surge current (8/20) 20 kA
- Uninterruptable operation (auto reset)

Function

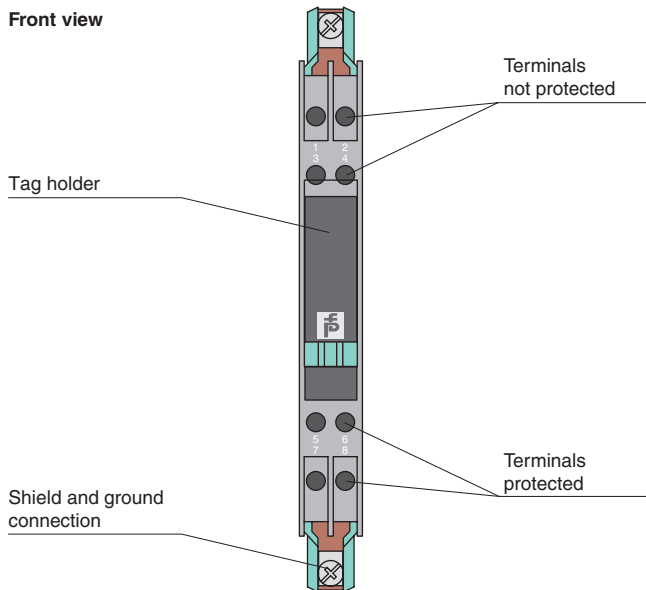
This Surge Protection Barrier limits induced transients of different origin (e. g. lightning stroke, switching impulse, etc.). This is achieved by diverting the transient current to ground and limiting the signal line voltage to a safe level for the duration of the surge.

This barrier provides a low line-to-line and line-to-ground clamping voltage for the protected instrument. It also protects instruments that have less than 500 V isolation-to-ground, such as Zener Barriers, standard I/O cards, and some field instruments.

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

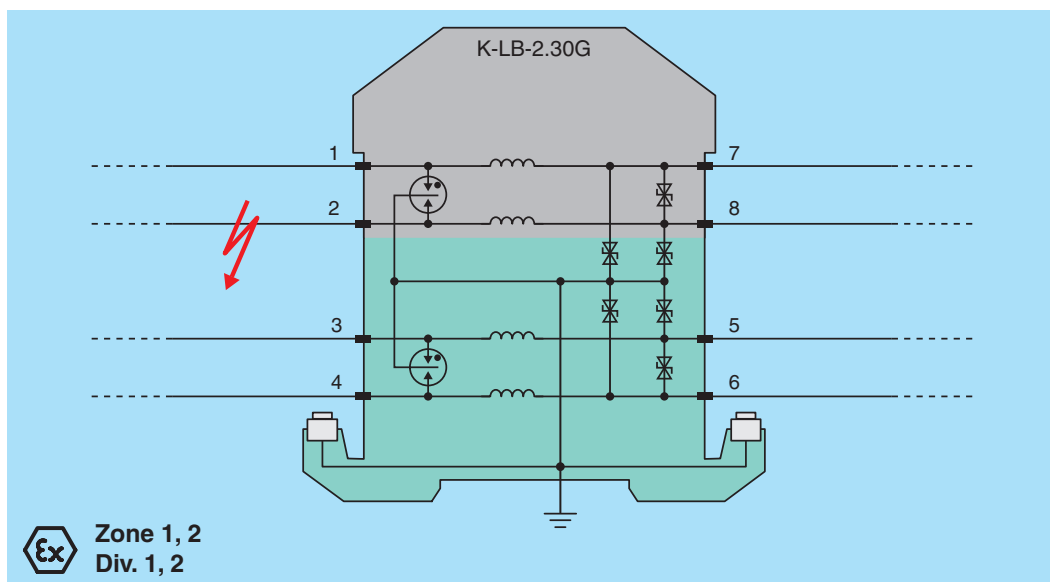
Note: Surge Protection Barriers must always be connected to a solid and effective ground and be at the same equipotential level as the instrument it is protecting. The ground system must comply with all applicable regulations.

Assembly



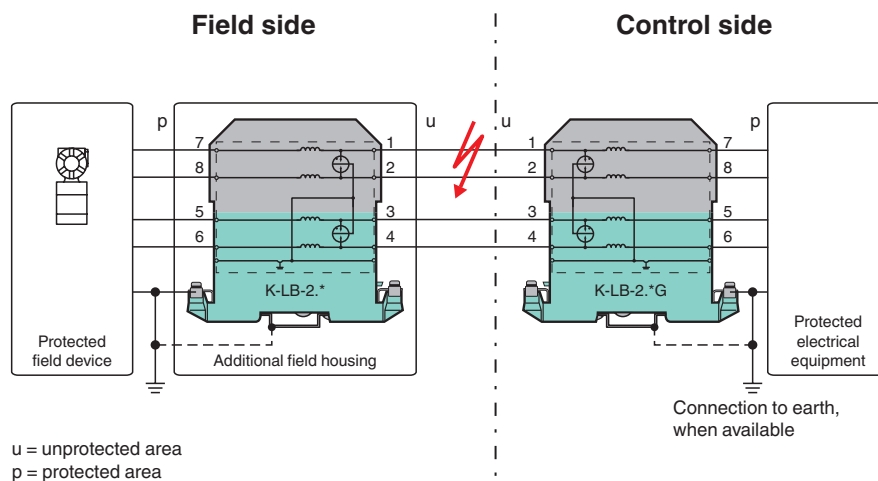
CE

Connection



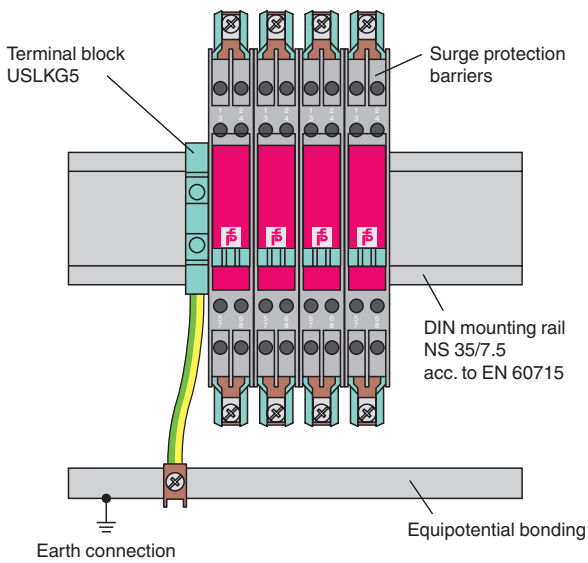
Supply		
Connection		protected area: terminals 5, 6; 7, 8 unprotected area: terminals 1, 2; 3, 4
Rated voltage		≤ 30 V
Rated current		≤ 250 mA
Leakage current		≤ 5 µA
On-state voltage		≤ 45 V
Electrical specifications		
Surge Current (8/20)	I_n	10 kA per core, 5 kA per line (10x)
Max. surge current (8/20)	I_{max}	20 kA per core, 10 kA per line (1x)
Conformity		
Protection degree		IEC 60529
Ambient conditions		
Ambient temperature		-30 ... 80 °C (-22 ... 176 °F) for Ex application, please observe EC-Type Examination Certificate
Mechanical specifications		
Protection degree		IP20
Mass		approx. 100 g
Dimensions		12.5 x 114 x 110 mm (0.5 x 4.5 x 4.3 in)
Data for application in connection with Ex-areas		
EC-Type Examination Certificate		PTB 00 ATEX 2176X , for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection, temperature classification		Ⓔ II 2(1)G Ex ia IIC T6
Temperature class		T6 for ambient temperature ≤ 50 °C T5 for ambient temperature ≤ 70 °C T4 for ambient temperature ≤ 80 °C
Voltage	U_i	30 V
Current	I_i	250 mA
Nominal response time		
Symmetrical		1 ns
Asymmetric		100 ns
Series resistance		≤ 0.3 Ω per conductor
Bandwidth		≥ 40 kHz
Directive conformity		
Directive 94/9/EC		EN 60079-0:2006, EN 60079-11:2007
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 .

Topology

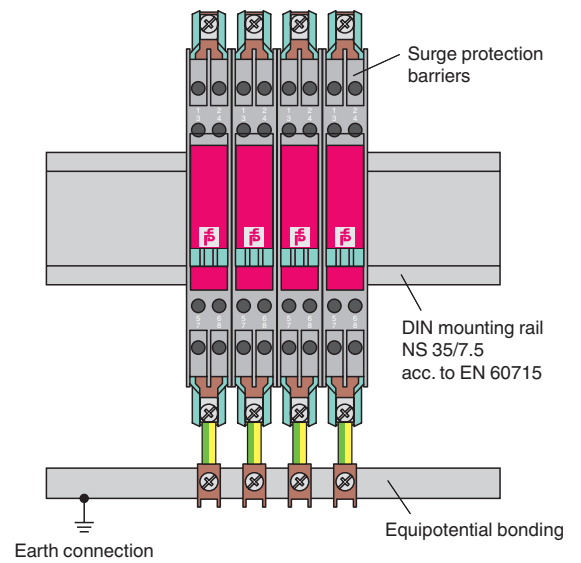


Release date 2011-06-08 14:36 Date of issue 2011-06-08 098913_ENG.xml

Installation examples



Insulated mounting (group grounding)



Insulated mounting (individual grounding)