Features

- 2-channel
- DIN rail mount module
- · For intrinsically safe or non-intrinsically safe 6 V applications
- Protects field or control circuit inputs
- Max. surge current (8/20 μs) 20 kA
- Uninterruptable operation (auto reset)

Function

The device limits induced transients of different causes, e.g. lightning or switching operations. The limitation is achieved by diverting the current to earth and limiting the signal loop voltage during the duration of the overvoltage pulse.

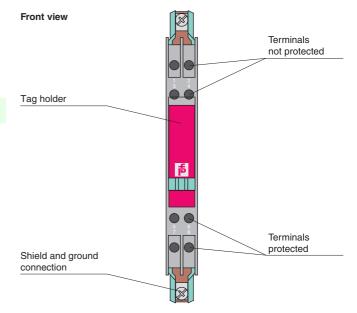
The device is HART transparent.

The device is mounted on a 35 mm DIN mounting rail according to EN 60715.

Note:

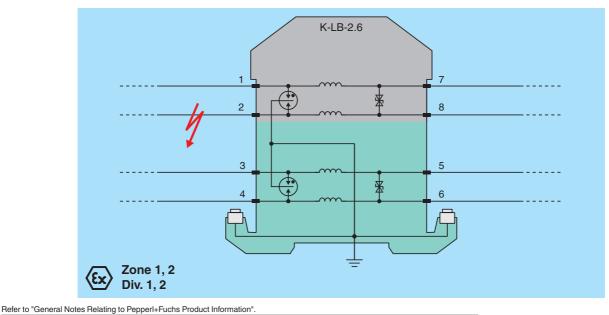
Always connect the device to high-quality ground connections. The device must have the same potential as the devices it protects. Install the ground system in accordance with the applicable regulations.

Assembly



CE

Connection



Refer to "General Notes Pepperl+Fuchs Group www.pepperl-fuchs.com

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General specifications		
Number of protected signal lines	s	4
Topology		non-grounded
Electrical specifications		
Connection		protected area: terminals 5, 6; 7, 8 unprotected area: terminals 1, 2; 3, 4
Rated current	l _r	250 mA
Leakage current	·r	$< 5 \mu$ A at 1 V and 25 °C (77 °F), line-line
Nominal voltage		
Maximum continuous operating	voltage	6 V DC
U _c	vollago	
Series resistance		$< 0.5 \Omega$ per line
Impulse rating		10 kV/5 kA (category C2) 2 kV/2 kA (category D1)
Impulse discharge current (10/350 μs) I _{imp}		2 kA per line (2x)
Nominal discharge current (8/20	Dμs) I _n	5 kA per line (10x)
Rated surge current (8/20 $\mu s)$ $~~I_{SM}$		10 kA per line (1x)
Total discharge current (8/20 μ s) I _{total}		20 kA (1x)
Voltage protection level Up		\leq 60 V line-line for nominal discharge current I _n \leq 1.2 kV line-earth for nominal discharge current I _n
Impulse reset time		< 30 ms
Insertion loss		≤ 0.05 dB, at 0 4 kHz, in 600 Ω-System
		\leq 3 dB, at 0 174 kHz, in 100 Ω -System
Indicators/settings		
Labeling		space for labeling at the front
Conformity		
Degree of protection		IEC 60529:2013
Surge protective devices for low voltage		EN 61643-21:2001+A1:2009+A2:2013 IEC 61643-21:2001+A1:2008+A2:2012
Operating conditions		
Installation conditions		
Mounting location		indoor
Ambient conditions		
Ambient temperature		-30 80 °C (-22 176 °F) For usage in hazardous area observe EC-type examination certificate.
Relative humidity		595%
Mechanical specifications		
Degree of protection		IP20
Connection		screw terminals
Core cross-section		2 x 2.5 mm ²
Mass		approx. 100 g
Dimensions		12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 inch)
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with hazardous areas		
EU-Type Examination Certificate		PTB 00 ATEX 2176 X
Marking		(x) II 2(1)G Ex ia IIC T6/T5/T4
Temperature class		T6 for ambient temperature \le 50 °C T5 for ambient temperature \le 70 °C T4 for ambient temperature \le 80 °C
Voltage	Ui	6 V
Current	l _i	250 mA
Internal capacitance	C _i	negligible
Internal inductance	L _i	200 μH
Certificate		PF 16 CERT 4065 X
Marking		⟨ II (3)D [Ex ic Dc] IIIC
Directive conformity Directive 2014/34/EU		EN 60079-0:2012+A11:2013 , EN 60079-11:2012
		LIN 0007 5-0.2012+A11.2013, EIN 0007 5-11.2012
International approvals		
CSA approval		116 0197 (oCSAuc)
Control drawing		116-0187 (cCSAus)
IECEx approval IECEx certificate		IECEx BAS 14.0010X
General information		

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

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General General

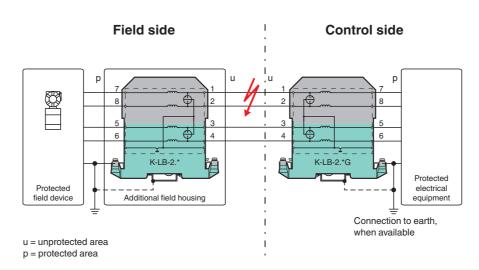
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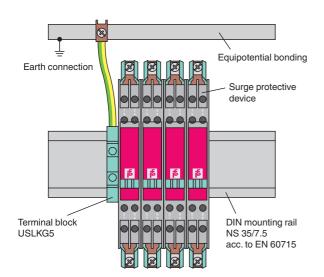
Supplementary information

Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

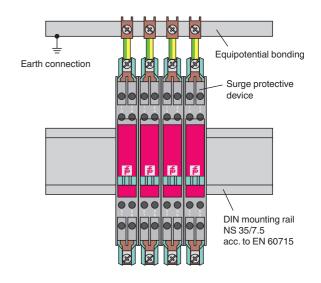
Topology



Installation examples



Insulated mounting (group grounding)



Insulated mounting (individual grounding)

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