

Fieldbus Surge Protector, Field Installation, Ex d

F*-LBF-D1.32

- Surge Protector in stainless steel housing
- Flameproof enclosure (Ex d) protection
- Surge protection for '+' and '-' fieldbus lead
- Choice of threads 20 mm or 1/2" NPT
- For FOUNDATION Fieldbus H1 and PROFIBUS PA

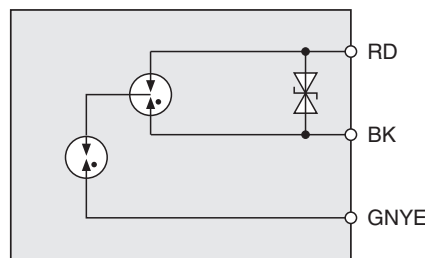


Function

F*-LBF-D1.32 are surge protection devices for fieldbus installations. They direct power surges to earth via gas discharge tubes, protecting field devices and control units from voltage surges and lightning strikes. They are in accordance with the fieldbus standard IEC 61158-2 and are certified Ex d (flameproof enclosure) for Zone 1.

FieldConnex® surge protectors for field installation enable the coordinated use in a lightning protection zone concept in accordance with IEC 61312-1. Housings are available with 20 mm ISO or 1/2" NPT connecting threads for easy installation on outdoor junction boxes.

Connection



Technical Data

General specifications

Design / Mounting Outside installation

Electrical specifications

Rated voltage	U_r	32 V
Nominal discharge current (8/20 μ s)	I_n	
per line		10 kA
total		10 kA
Max. surge current (8/20 μ s)	I_{max}	10 kA
Voltage protection level at max. rated current		
Line/Line		58 V
Line/Earth		1700 V
Voltage protection level at 1 kV/ μ sec		
Line/Line		50 V
Line/Earth		1.2 kV

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

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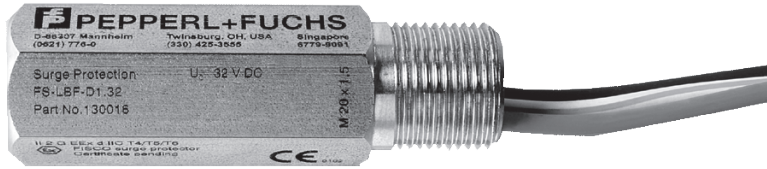
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Technical Data

Reaction time	t_A	
Line/Line		max. 1 ns
Line/Earth		max. 100 ns
Capacitance		
Line/Line		25 pF
Line/Earth		15 pF
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013
Standard conformity		
Electromagnetic compatibility		
		NE 21:2006
Degree of protection		
		IEC/EN 60529
Fieldbus standard		
		IEC 61158-2
Surge protection		
		IEC 61643-21
Ambient conditions		
Ambient temperature		
		-50 ... 80 °C (-58 ... 176 °F)
Storage temperature		
		-50 ... 85 °C (-58 ... 185 °F)
Mechanical specifications		
Core cross-section		
		1.3 mm ²
Housing material		
		Stainless steel 1.4401 (AISI 316) surface all over polished
Degree of protection		
		IP00/IP67 if correctly installed
Mass		
		160 g
Mounting		
		screw mounting
Data for application in connection with hazardous areas		
EU-Type Examination Certificate		
		KEMA 04 ATEX 2318 X
Marking		
		⊕ II 2G Ex d IIC T5/T6 Gb
Maximum values		
Rated voltage		
		32 V
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2012 , EN 60079-1:2007
International approvals		
IECEX approval		
		IECEX KEM 09.0067X
Approved for		
		Ex d IIC T5/T6 Gb
Certificates and approvals		
Marine approval		
		DNV A-14038
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 .

Product Photo



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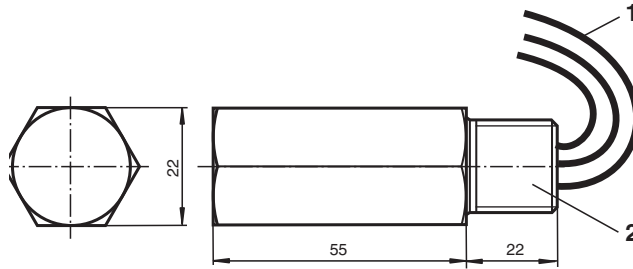
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Additional Information

Note

Surge protectors must always be connected to a solid ground (large cross sections, short wiring). This is the basic requirement for an effective protection.

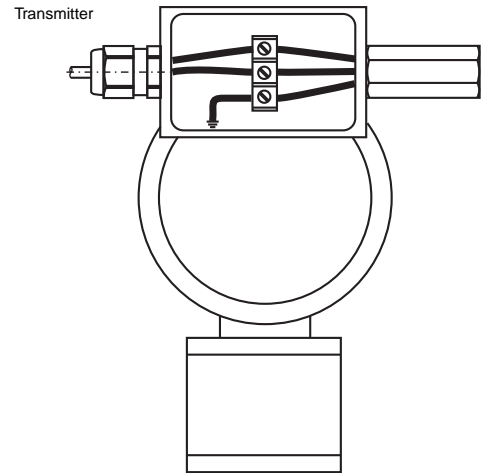
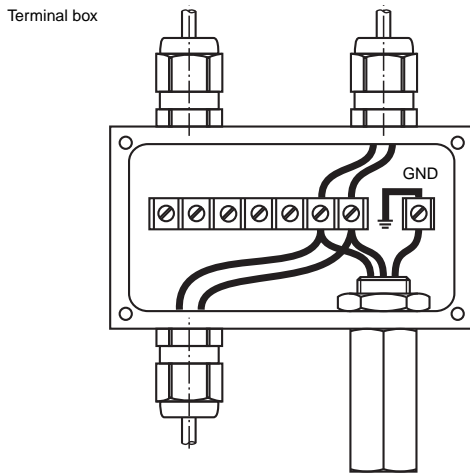
Dimensions and Assembly



- 1 Cable cross sectional area 1.0 mm
Cable length 250 mm
- 2 FS*: M20 x 1.5 thread
FN*: 1/2"NPT thread

Mounting

Examples:



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