

## Surge Protector FieldConnex® Fieldbus 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

Surge protector, threaded, for installation via threaded inlet in field housing (Ex d), IP67

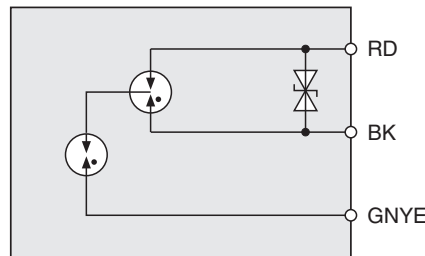


### Function

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
Installation in hazardous area	Zone 1

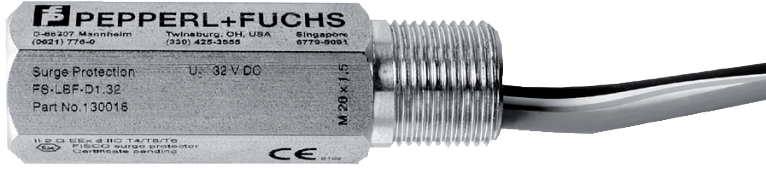
#### Electrical specifications

Rated voltage	$U_r$	32 V
Nominal discharge current (8/20 $\mu$ s)	$I_n$	
per line		10 kA
total		10 kA
Max. surge current (8/20 $\mu$ 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/ $\mu$ sec		

## Technical Data

Line/Line		50 V
Line/Earth		1.2 kV
Reaction time	$t_A$	
Line/Line		max. 1 ns
Line/Earth		max. 100 ns
Capacitance		
Line/Line		25 pF
Line/Earth		15 pF
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013
<b>Standard conformity</b>		
Electromagnetic compatibility		NE 21:2006
Degree of protection		IEC/EN 60529
Fieldbus standard		IEC 61158-2
Surge protection		IEC 61643-21
<b>Ambient conditions</b>		
Ambient temperature		-50 ... 80 °C (-58 ... 176 °F)
Storage temperature		-50 ... 85 °C (-58 ... 185 °F)
<b>Mechanical specifications</b>		
Core cross section		1.3 mm <sup>2</sup>
Housing material		Stainless steel 1.4401/316
Degree of protection		IP00/IP67 if correctly installed
Mass		160 g
Mounting		screw mounting
<b>Data for application in connection with hazardous areas</b>		
EU-type examination certificate		KEMA 04 ATEX 2318 X
Marking		Ⓜ II 2G Ex db IIC T6...T5 Gb
<b>Maximum values</b>		
Rated voltage		32 V
<b>Directive conformity</b>		
Directive 2014/34/EU		EN IEC 60079-0:2018+AC:2020 , EN 60079-1:2014
<b>International approvals</b>		
IECEX approval		
IECEX certificate		IECEX KEM 09.0067X
IECEX marking		Ex db IIC T6...T5 Gb
<b>General information</b>		
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 <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

Product Photo



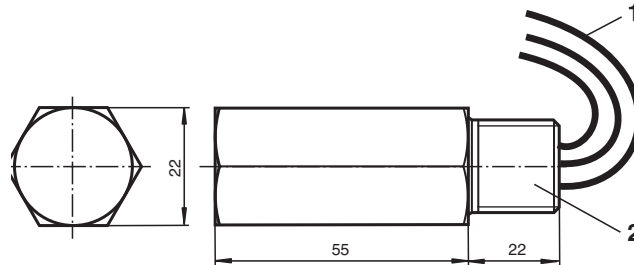
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## Additional Information

### 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

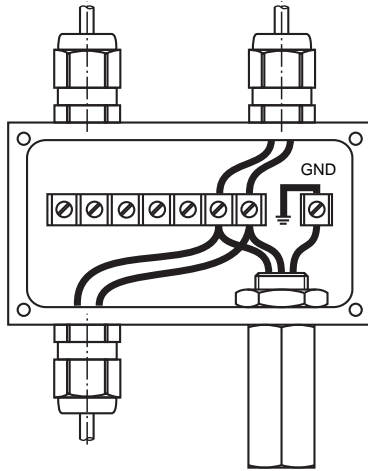


- 1 Cable cross sectional area 1.0 mm  
Cable length 250 mm
- 2 FS\*: M20 x 1.5 thread  
FN\*: 1/2"NPT thread

## Mounting

### Examples:

Terminal box



Transmitter

