

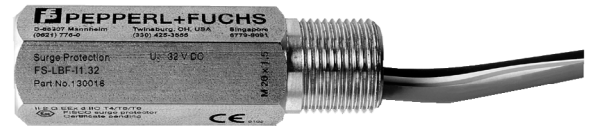
Features

- Surge Protector in stainless steel housing
- Intrinsically safe, FISCO or Entity
- Surge protection for '+' and '-' fieldbus lead
- Choice of threads 20 mm or 1/2" NPT
- For FOUNDATION Fieldbus H1 and PROFIBUS PA

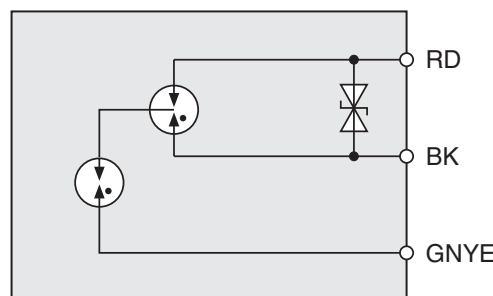
Function

F*-LBF-I1.32 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 intrinsically safe Ex ia for Zone 1, FISCO, and Entity. 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.

Assembly



Connection




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

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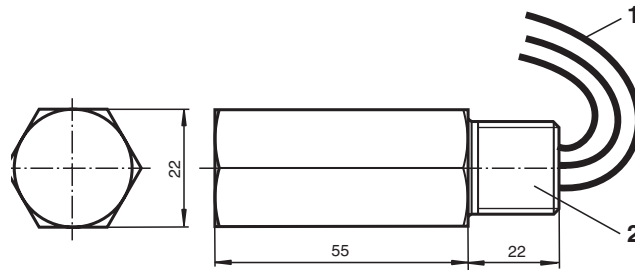
| | | |
|--|-----------|--|
| General specifications | | |
| Design / Mounting | | Outside installation |
| Electrical specifications | | |
| Rated voltage | U_r | 32 V |
| Rated current | I_r | 550 mA |
| Nominal discharge current (8/20 μ s) | I_n | |
| per line | | 10 kA |
| total | | 10 kA |
| Max. 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 |
| Reaction time t_A | | |
| Line/Line | | ≤ 1 ns |
| Line/Earth | | ≤ 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 | | |
| Degree of protection | | NE 21:2006 |
| Fieldbus standard | | IEC/EN 60529 |
| Surge protection | | IEC 61158-2 |
| | | 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 | | |
| Marking | | KEMA 04 ATEX 1317 X  II 2(1)G Ex ia IIC T4/T5/T6 |
| Voltage | U_i | Entity 30 V , FISCO 17.5 V |
| Current | I_i | Entity 550 mA , FISCO 380 mA |
| Power | P_i | Entity 3 W , FISCO 5.32 W |
| Internal capacitance | C_i | negligible 0 nF |
| Internal inductance | L_i | negligible 0 μ H |
| Directive conformity | | |
| Directive 2014/34/EU | | EN 60079-0:2012 , EN 60079-11:2012 , EN 60079-26:2007 |
| International approvals | | |
| IECEX approval | | |
| Approved for | | IECEX KEM 09.0081X Ex ia [ia Ga] 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 . |

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Notes

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

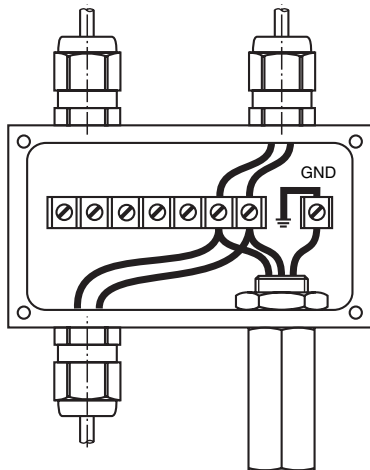
Dimensions



- 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

