



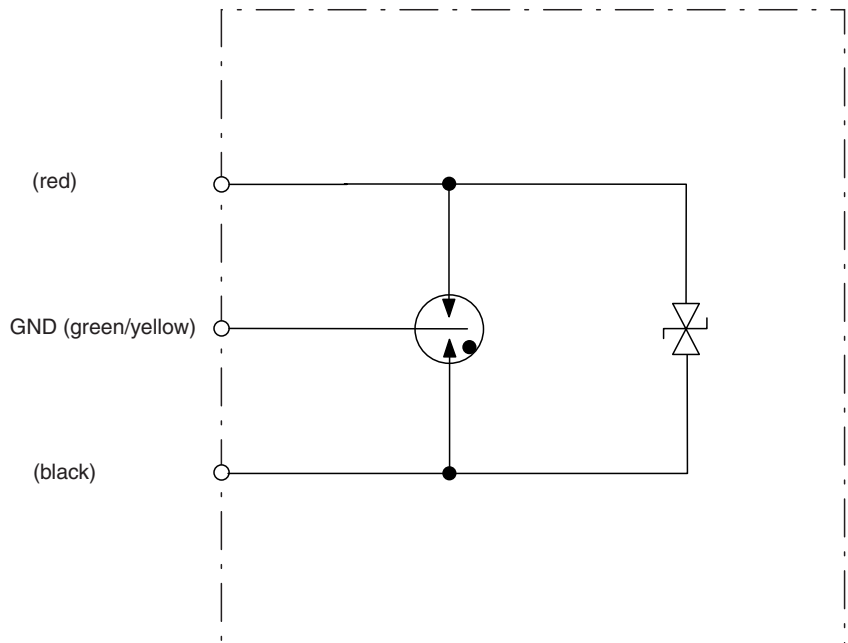
½" NPT thread

- 2-wire protection
- For insulated C&I circuits
- Fulfills requirements to 500 V insulation to earth, housing components and other intrinsically safe circuits
- Installation directly in the hazardous area for protecting the field devices
- Discharge current 10 kA
- Simple installation in the free cable gland on the field device
- Uninterruptable operation (auto reset)

Function

By using an F*-LB-I, field devices and control interface units are safely protected from voltage surges due to e. g. flash of lightning, switching processes etc.).

This is accomplished by the derivation of the higher current to ground and a voltage limit during the high level pulse. The continuous current capacity of the circuit that is to be protected must not exceed the rated operational current.



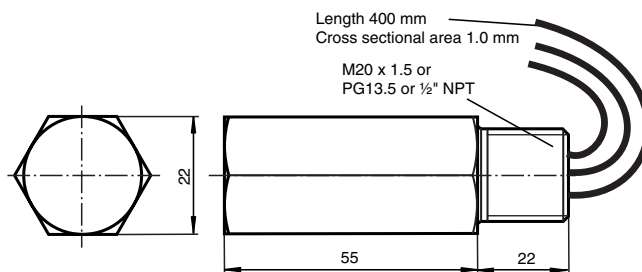
Composition



Supply	
Rated voltage	≤ 48 V
Rated current	≤ 250 mA
Leakage current	≤ 5 μA
On-state voltage	≤ 85 V
Ground insulation	≥ 500 V breakdown voltage
Ambient conditions	
Ambient temperature	-30 ... 60 °C (243 ... 333 K) for Ex application; please observe declaration of conformity
Mechanical specifications	
Housing material	stainless steel 1.4401 (AISI 316) surface all over polished
Protection degree	IP20
Data for application in conjunction with hazardous areas	
EC-Type Examination Certificate	PTB 00 ATEX 2175 , conformity information is to consider
Group, category, type of protection, Temperature classification	⊕ II 2 G EEx ia IIC T6
Voltage U _i	50 V
Type of protection [EEx ia and EEx ib]	
Internal capacitance (EEx ia)	negligibly small
Internal inductance (EEx ia)	negligibly small
Nominal leakage current	10 kA (8/20 μs) per core according to IEC 60-2
Nominal response time	
Symmetrical	1 ns
Asymmetric	100 ns
Bandwidth	≥ 40 kHz

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.



Examples:

