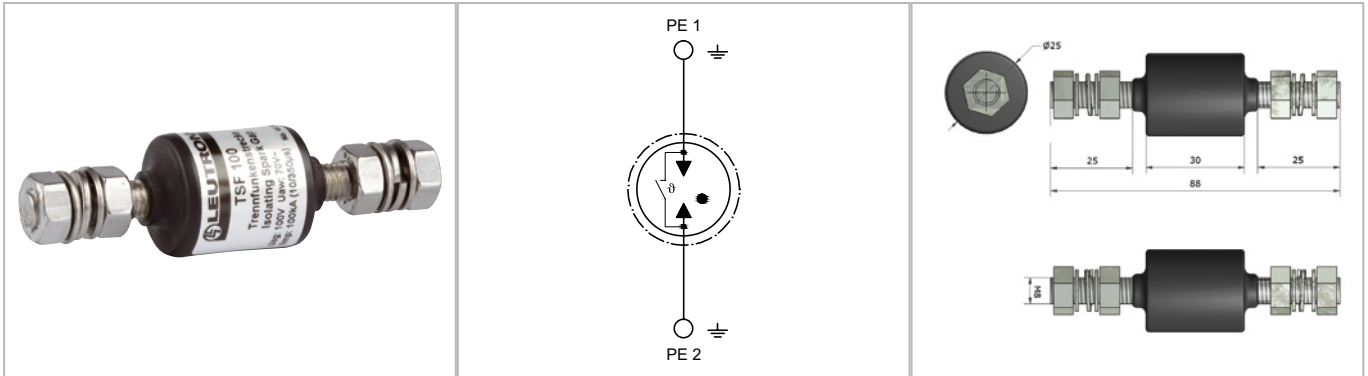


Rare-gas-filled insulation spark gaps / Flexible mounting

TSF 100



Rare-gas-filled spark gap for the lightning protection equipotential bonding, the insulation of electrically separated parts and the bridging of insulating flanges of gas pipelines. For internal or similar applications.

- High-quality industrial ceramics
- Rare-gas filled, hermetically sealed
- Free from radioactive substances
- High lightning current discharge capacity of 100 kA (10/350 μ s)
- High reliability, robust
- Stable performance, long service life
- Fail-safe characteristic
- Test standard EN 50164-3

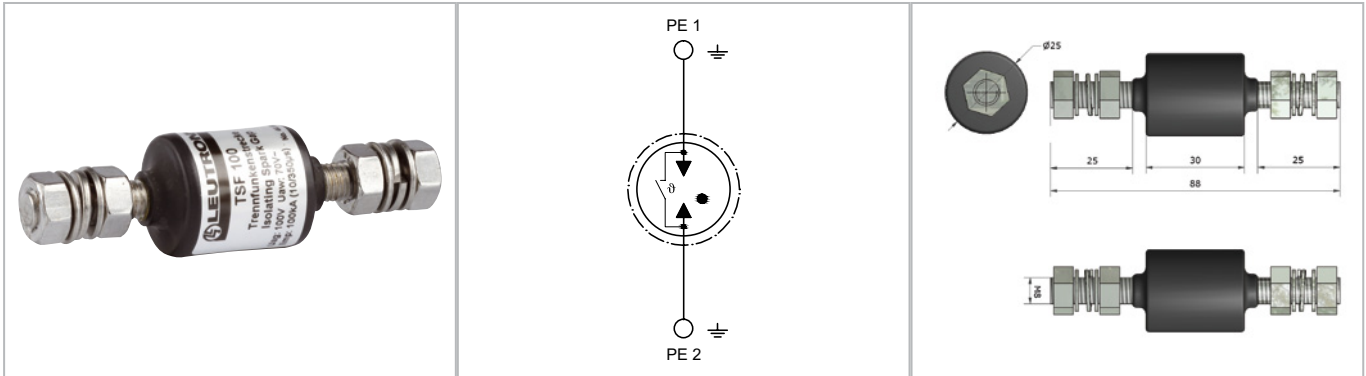
Technical Data		TSF 100
IEC category/EN type		Class H
Nominal DC sparkover voltage at 100V/s	U _{agN}	100 \pm 20% V=
Nominal AC sparkover voltage (50 Hz)	U _{aw}	70 \pm 20% V
Typical impulse sparkover voltage	U _{as}	650 V
Max. impulse sparkover voltage	U _{as}	950 V
Lightning impulse current discharge capacity limp (10/350 μ s)	I _{peak}	100 kA
Nominal impulse discharge current (10 x 8/20)	I _n	100 kA
5x Nominal alternating discharge current at 50Hz, 1s, 3min pause	I _{wn}	100 / 1 A
Nominal alternating discharge current (50 Hz)		200 / 0,5 A
Spark-gap extinguishing conditions	V _{ex}	<70V / <20A V
Insulation resistance at 10V, 100V		> 1 G Ω
Self-capacitance at 1 kHz		6 pF
Test category/climatic category		DIN IEC 60068-1 / 40/90/21
Relative humidity		10%...95% rh
Degree of protection		IP 67
Operating temperature range	TU	-40 - +80 °C
Terminals		M8 bolt/nut (NIROSTA stainless steel)
Dimensions ($\varnothing \times L$)		25 x 88 mm
3x lightning impulse current (10/350), long-duration current (CENELEC/BTTF 62-2)	I _{imp}	75 kA/ 38 As / 1,45 MJ / Ω + 150A / 0,5s / 75 As kA
20x lightning impulse current (10/45 μ s) half-wave (DIN 48810)		60kA / 10 As / 0,1 MJ/ Ω kA

Order Data

Product	TSF 100
Article-No.	44 90 69

Rare-gas-filled insulation spark gaps / Flexible mounting

TSF 500



Rare-gas-filled spark gap for the lightning protection equipotential bonding, the insulation of electrically separated parts and the bridging of insulating flanges of gas pipelines. For internal or similar applications.

- High-quality industrial ceramics
- Rare-gas filled, hermetically sealed
- Free from radioactive substances
- High lightning current discharge capacity of 100 kA (10/350 μ s)
- High reliability, robust
- Stable performance, long service life
- Fail-safe characteristic
- Test standard EN 50164-3

Technical Data		TSF 500
IEC category/EN type		Class H
Nominal DC sparkover voltage at 100V/s	U _{agN}	500 \pm 15% V=
Nominal AC sparkover voltage (50 Hz)	U _{aw}	350 \pm 15% V
Typical impulse sparkover voltage	U _{as}	950 V
Max. impulse sparkover voltage	U _{as}	1300 V
Lightning impulse current discharge capacity limp (10/350 μ s)	I _{peak}	100 kA
Nominal impulse discharge current (10 x 8/20)	I _n	100 kA
5x Nominal alternating discharge current at 50Hz, 1s, 3min pause	I _{wn}	100 / 1 A
Nominal alternating discharge current (50 Hz)		200 / 0,5 A
Spark-gap extinguishing conditions	V _{ex}	<230V / <100A V
Insulation resistance at 10V, 100V		>1 G Ω
Self-capacitance at 1 kHz		4 pF
Test category/climatic category		DIN IEC 60068-1 / 40/90/21
Relative humidity		10%...95% rh
Degree of protection		IP 67
Operating temperature range	TU	-40 - +80 °C
Terminals		M8 bolt/nut (NIROSTA stainless steel)
Dimensions ($\varnothing \times L$)		25 x 88 mm
3x lightning impulse current (10/350), long-duration current (CENELEC/BTTF 62-2)	I _{imp}	75kA / 38 As / 1,45 MJ/ Ω + 150A/0,5s/75As kA
20x lightning impulse current (10/45 μ s) half-wave (DIN 48810)		60kA/10As/0,1MJ/ Ω kA

Order Data

Product	TSF 500
Article-No.	48 78 01