

## SURGE PROTECTION

### Spark gap: EXFS 100 / EXFS 100 KU

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Sheet: 1 of 1

German Cathodic Protection



#### EXFS 100

Isolating spark gap for use in hazardous zones with plastic coating and threaded M10 sockets.

- For indirect connection/earthing of functionally separate parts of installations when being affected by lightning
- Device for lightning equipotential bonding according to IEC 62305 in hazardous areas
- For bridging insulating pieces, insulating flanges, etc. in cathodic protected pipeline sections
- For safe application in explosion protection zone 1 (gases) or 2 (dust)
- Considerably low sparkover voltage
- Considerably high AC current withstand capability

#### Connection cable Cu 25 mm<sup>2</sup> for EXFS 100

Connection cable for EXFS 100 with cable lug for M10 bolt, M10 screw, StSt nut (V2A) and spring washer.

Available cable length: 100, 200 or 300 mm



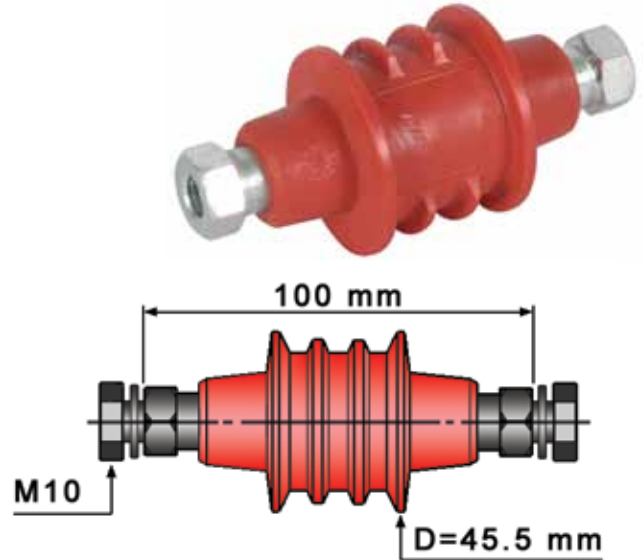
#### EXFS 100 KU

Spark gap for hazardous zones with 2 m connecting cables for underground installation



#### EXFS 100

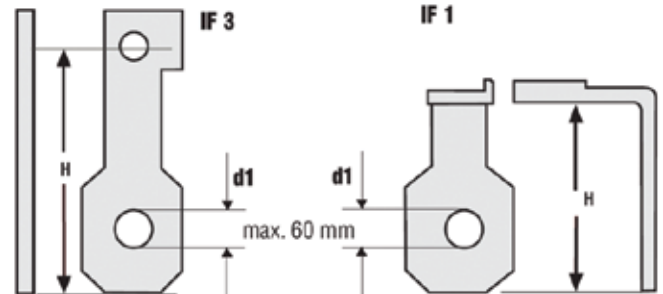
Isolating spark gap for hazardous zones with M10 bolt and nut



#### Connection bracket for EXFS 100

Terminal height H

Size	IF 1	IF 3
1	H = 0.08 m	H = 0.10 m
2	H = 0.10 m	H = 0.12 m
3	H = 0.14 m	---



EX isolating spark gap for installation above or below ground	EXFS 100	EXFS 100 KU
Lightning impulse current (10/350 μs)	100 kA	100 kA
Class of lightning impuls current strength acc. to EN 50164-3	H	H
Nominal discharge current (8/20 μs)	100 kA	100 kA
Rated power frequency withstand voltage (50 Hz)	250 V	250 V
100% lightning impulse sparkover voltage	≤ 1.25 kV	≤ 1.25 kV
Power frequency sparkover voltage (50 Hz)	≤ 0.5 kV	≤ 0.5 kV
Rated discharge current (50 Hz)	500 A/0.5 sec. (Tu: ≤ 45°C)	500 A/0.5 sec. (Tu: ≤ 45°C)
(Ex) Marking acc. to EN 60079 (gas atmospheres)	II 2G Ex d II T6	II 2G Ex d IIC T6
(Ex) Marking acc. to EN 61241 (combustible dust)	II 2D Ex tD A21 IP67 T 80°C	II 2D Ex tD A21 IP67 T 80°C
Operating temperature range [TU]	-20°C...+60°C	-20°C...+60°C
Degree of protection	IP 67	IP 67
Approvals Certifications	BVS 06 ATEX E 099	BVS 06 ATEX E 099
Enclosure material	plastic coating	plastic coating; water-proof coating
Connection of enclosure	hexagon screw M10 x 16, M10 nut	.
Connecting cable / Cable length	.	NY-Y-J 1 x 25 mm <sup>2</sup> / approx. 2 m