SURGE PROTECTION Spark gap: EXFS L Document No.: 14-101-R0

GCI

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The Ex isolating spark gaps EXFS L are used for conductive system parts which cannot be interconnected directly in hazardous zones. This affects, for example, pipe sections supplied with a cathodic corrosion protection system.

The spark gaps EXFS L certified by ATEX provide approved and tested safety according to harmonised European standards.

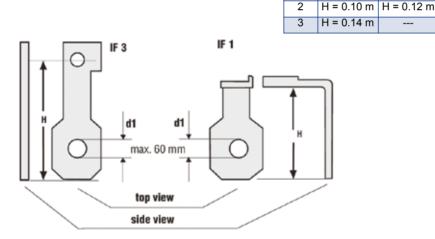
The arc-resistant tungsten-copper electrodes ensure a long service life of the Ex spark gaps.

The approved type EXFS L with flexible conductor connection adjusts itself guickly to any application environment. The prewired spark gaps include connecting cables with different lengths with cable lugs, M10 screws and nuts. The flat or angled connection brackets (IF), which are available as accessories, allow for easy connection of the spark gap at pipeline flanges.

Application

An isolating spark gap connects indirectly functionally separate parts of an installation, e.g. isolated earth-termination systems. It can be used for bridging insulating pieces, insulating couplings and insulating flanges indirectly at cathodic protected parts of an installation, e.g. pipelines or tanks, as a measure of lightning equipotential bonding according to DIN VDE 0185.

Connection bracket



EXFS L: Ex Isolating spark gap for aboveground installat	ion EXFS L100	EXFS L200	EXFS L300
	50 kA	50 kA	50 kA
Lightning impulse current	N	N	N
Classfication of lightning current carrying capability acc. to prEN	50164-3	100 kA	100 kA
Nominal discharge current (8/20 µs)			
• • • • •	≤ 2.5 kV	≤ 2.5 kV	≤ 2.5 kV
100% lightning impulse sparkover voltage	≤ 1.2 kV	≤ 1.2 kV	≤ 1.2 kV
Power frequency sparkover voltage (50 Hz)			
Type of protection according to EN 50014, EN 50021	II 3 G EEx nC II T4	II 3 G EEx nC II T4	II 3 G EEx nC II T4
	-20°C+80°C	-20°C+80°C	-20°C+80°C
Operating temperature range [TU]	IP 54	IP 54	IP 54
Degree of protection			
Approvals, Certifications	ZELM 03 ATEX 3192X	ZELM 03 ATEX 3192X	ZELM 03 ATEX 3192X
	90 mm	90 mm	90 mm
Length of enclosure	63 mm	63 mm	63 mm
Diameter of enclosure 63 mm 63 mm 63 mm			
Enclosure material	zinc die casting, plastic	zinc die casting, plastic	zinc die casting, plastic
	H01N2-D 25 mm ²	H01N2-D 25 mm ²	H01N2-D 25 mm ²
Connecting cable	with cable lug and M10 screw / nut	with cable lug and M10 screw / nut	with cable lug and M10 screw / nut
	100 mm	200 mm	300 mm
Cable length	20 - 130 mm	120 - 230 mm	220 - 320 mm
Suitable for flange size	20 100 1111	120 200 1111	

Terminal height "H" TF 1

Size

1

IF 3

H = 0.08 m H = 0.10 m



