

Lightning and surge protection by OBO

EX ISG H – the new isolated spark gap (ISG) for explosive areas



Application

Indirect earthing of pipelines-/ pipe sections



**Bridging of insulating flanges / insulating pieces
in cathodic corrosion protection (CCP)**

Innovative

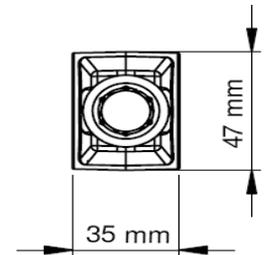
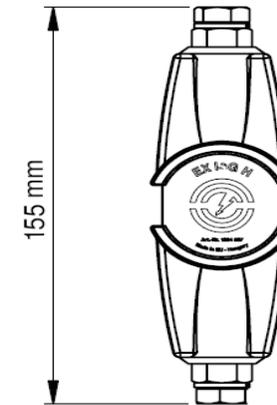
Hotmelt housing
- Corrosion and
weather resistant



Wear-free graphite
electrodes



QR-Code



**Modern Manufacturing and materials technologies
from the automotive sector**

Requirements

ATEX/ IECEx



VDE/ IEC



Ceacor



Isolated spark gaps for EX areas have to pass many tests!



Quality and product safety by OBO

Certified Tests,
Production and Quality



VDE accepted BET
ISO 9001
ISO 50001

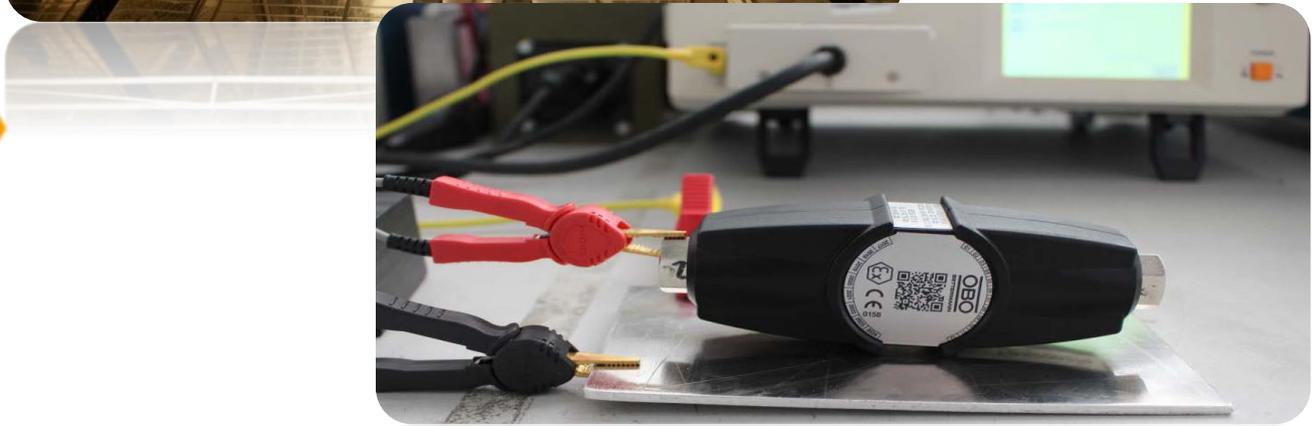


Requirements for EX ISG

UV and weather tests 



Electrostatic tests 



Requirements for EX ISG

Corrosion tests 



Requirements for EX ISG

IEC/ EN 62561-3
Mechanical test





Requirements for EX ISG

IEC/ EN 62561-3
IEC/EN 62561-1





Requirements for EX ISG

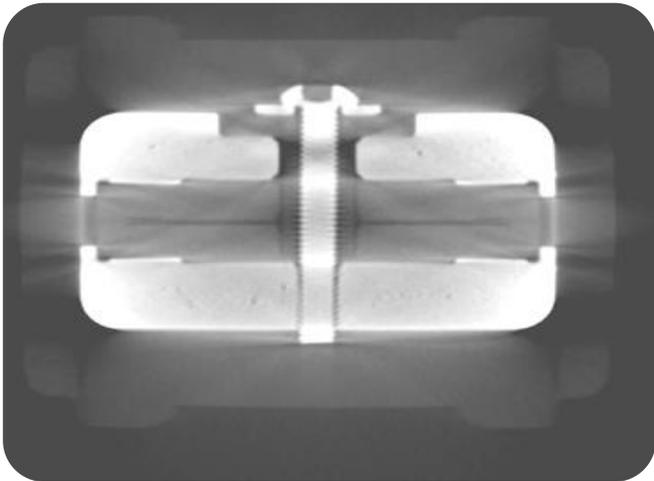
Thermal stability under normal conditions



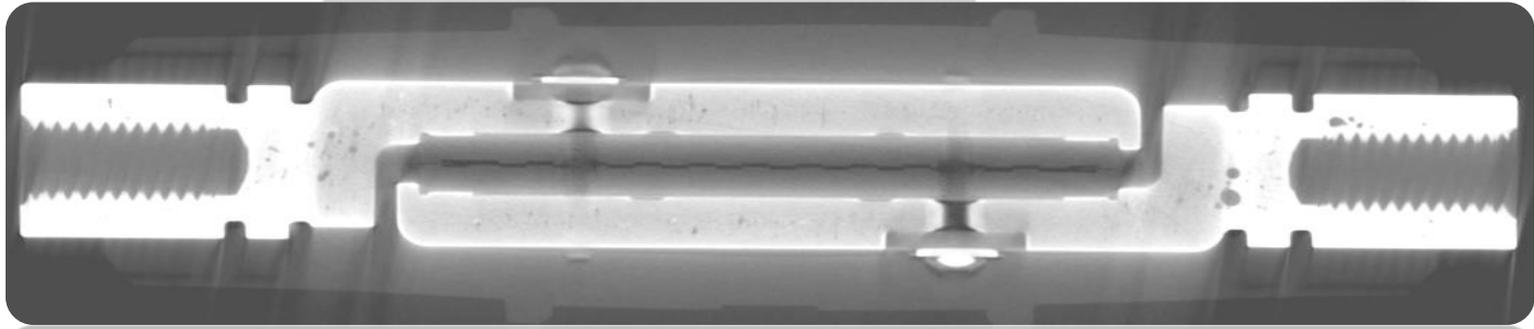


Quality and product safety by OBO

Computed Tomography /CAT scan



Video1.mpg



Technical data EX ISG H

Lightning current carrying capacity acc. to:

IEC 62561-3 / EN 62164-3 (10/350 μ s): Class H / 100 kA

IEC 62561-1 / EN 62164-1 (10/350 μ s): Class H / 100 kA

Nominal discharge current (8/20 μ s): 100 kA

Rated response voltage: ≤ 1.25 kV

Rated withstand voltage (50 Hz): ≤ 250 V

Degree of protection: IP 66





EX – „flameproof encapsulated“ third party tested



Thank you!

Compare

	OBO	OBO
Type	EX ISG H	480 Parex
Item no	5240 030	5240034
Lightning current capability (10/350 μ s)	100 kA	100 kA
Impuls current (8/20 μ s)	100 kA	100 kA
Uw AC Nom	250 V	500 V
Uw DC Nom	354 V	700V
Up Protection level	$\leq 1,25$ kV	≤ 5 kV
Bemessungs-Ableitstrom (50 / 60 Hz) (I _{max})	500 A / 0,5 sec	
Lightning current carrying capacity class	H	H
ATEX	II 2 G Ex db IIC T6 Gb II 2 D Ex tb IIIC T80°C Db	DNV 12.0182 X IECEX BVS 12.0028X BVS 04 ATEX E 054
IECEX	Ex db IIC T6 Gb Ex tb II C db	