

High Energy Igniter for Gas Turbines



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The high-energy igniter D-HG 53 Ex may be used in conjunction with the ignition lance IZLX where elevated pressures or temperatures are expected.

Features

- Chamber temperature max. 950 °C
- Chamber pressure max. 25 bar
- Compact design.

Applications

- Gas turbines

Certifications

- ATEX

Functional description

A high-voltage capacitor is charged up to an energy level of 4.5J in the ignition device. Once the required energy level has been reached, a non-wearing electronic switch (thyristor) triggers a spark discharge at the ignition tip.

The device provides 20 ignition sparks per second for a duration of 1 min for reliable ignition during the start phase. It then switches to 5 ignition sparks per second.



High Energy Igniter D-HG 53 Ex		Ignition Lance IZLX	
Mains voltage	115 / 230 VAC, 50 / 60 Hz	Chamber temperature	max. 950°C
Power consumption	220 VA	Chamber pressure	max. 25 bar
Ignition voltage / energy	1500 V / 4.5 J	Length of connecting cable	selectable
Power-on time	300 s (Duty cycle 50%)	Lance installation length "L"	selectable
Perm. ambient temperature	-20...+60°C	Protection	IP65
Protection	IP66		
Switching capacity	250 VAC / 4A		
Ignition frequency	20 sparks/s for 1 min. thereafter 5 sparks/s	Ignition frequency	20 Funken/s für 1 min dann 5 Funken/s
Ex-protection	II 2 G/D EEx de IIC T6	Ex-protection	II 2 Gd IIC T6 bzw. T4 GB