SureFire™ II
Igniters & Pilots

High Tension Igniter & High Tension with ‘spark & sense’ Igniter
HTI / HTSS

Designed to ignite a mixture of various types of gaseous fuels with air

The Fireye SureFire II High Tension Igniters are a reliable source of ignition for natural and forced draught gas igniters and pilots as well as small capacity gas burners. They are designed to ignite a mixture of various types of gaseous fuels with air.

Typical fuel gases for the igniters are: natural gas, propane or LPG gases. Please consult with Fireye for applications that are subject to refinery ‘off’ gases, including:

- High hydrogen content
- Sulfur compounds such as hydrogen sulphide
- Oher chemicals which increase the corrosion rate and waste gases, including low calorific value, wet and/or dirty gases

The high tension with ‘spark & sense’ igniter can be used as an igniter with an additional flame safeguard for flame detection. The flame detection method used in the high tension with ‘spark & sense’ igniter is called ionization (rectification) method. The principle measures the ionization current in electrically conductive ionized gas in a flame.

Features

- The design of the unit provides a very stable electric arc and repeatable ignition
- The use of interchangeable tips and no adjustment parts help ensure long operation with low maintenance costs
- This type of igniter rod design provides trouble-free reliable performance in gas applications
- Spark & sense feature (-SS) allows for flame sensing via flame rod
- Available in hazardous area option

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Specifications

Power Supply Voltage, Current	230/110 (115) VAC (50/60 Hz); 0.5/1.2 A (230/110 VAC)
Ignition HT Transformers	Input / Output/ Weight / Dimensions (LxWxD)
P/N **TX-230-8000**	230 VAC at 0.5A / 8,000 VAC, 15 mA, 100% duty cycle / 1.8 kg / 107 x 87 x 64
P/N **TX-110-8000**	110/115 VAC at 1.2A / 8,000 VAC, 15 mA, 100% duty cycle / 1.8 kg / 107 x 87 x 64
Method of Operation	Electrical arc
Ignition Control Signal	24 VDC, maximum 12 A (20A peak)
Available Rod Insertion Length L1	0.65 ÷ 3.15 m
Rods and Tips Outer Diameter / Material	Ø 16 mm / 316 SS
Rods Optimal Electrical Operation Parameters	15-20 mA at 7,500 - 10,000 V
Rods and Tips	Operating Temperature / IP Rating / Weight
P/N **HTSS-xxx-J**	-40° C to +100°C / IP67 (j. box), +200°C rod tube / L1 = 0.65 m - 0.77 kg
P/N **HTSS-xxx-CEX**	-40° C to +80°C / IP66 (cable entry), +200°C rod tube / L1 = 0.65 m - 1.00 kg
P/N **HTSS-xxx-J-CEX**	-40° C to +80°C / IP66 (j. box), +200°C rod tube / L1 = 0.65 m - 1.73 kg
Rods Weight Adder	Approximately 0.44 kg / meter
Tip P/N **HTR-TIP**	Length 160 mm, 0.16 kg; **caution:** used on rods length L=0.5, 0.6, 0.7 only
Tip P/N **HTR-TIP-L**	Length 460 mm, 0.32 kg
Tip Operating Temperature	+300°C tip continuously, over +1,000°C in flame for short period central Kanthal electrode over +1,000°C continuously
Power Packs	Operating Temperature / IP Rating / Weight / Material
P/N **HTSS-PP-230/110**	-40° C to +65°C / IP66 / 6 kg / c. steel powder-coated or option stainless steel
P/N **HTSS-PP-230/110-CEX**	-40° C to +65°C / IP66 / 20 kg / cast aluminum powder-coated or option stainless steel
HV Ignition Single Wire Cable Data	
P/N **HT-CAB-5**	Type FZ-LSi, OD 7 mm, 15kV, wire 1.0 mm^2, operating temperature -50°C to 180°C
P/N **HT-CAB-5-CEX**	Type FZ-LSlekw, shielded, OD 8 mm, 15kV, wire 1.0 mm^2, operating temperature -50°C to 180°C
P/N **HT-CAB-5** and **HT-CAB-5-CEX** (5 m working length)	Weight 0.37 kg and 0.42 kg