



## 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 Fireeye 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 Fireeye for applications that are subject to refinery 'off' gases, including:

- High hydrogen content
- Sulfur compounds such as hydrogen sulphide
- Other 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



**SUREFIRE™**

# SureFire II

## Igniters & Pilots

### Specifications

Power Supply Voltage, Current	230/110 (115) VAC (50/60 Hz); 0.5/1.2 A (230/110 VAC)
Ignition HT Transformers P/N <b>TX-230-8000</b> P/N <b>TX-110-8000</b>	Input / Output/ Weight / Dimensions (LxWxD) 230 VAC at 0.5A / 8,000 VAC, 15 mA, 100% duty cycle / 1.8 kg / 107 x 87 x 64 110/115 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 P/N <b>HTSS-xxx-J</b> P/N <b>HTSS-xxx-CEX</b> P/N <b>HTSS-xxx-J-CEX</b>	Operating Temperature / IP Rating / Weight -40° C to +100°C / IP67 (j. box), +200°C rod tube / L1 = 0.65 m - 0.77 kg -40° C to +80°C / IP66 (cable entry), +200°C rod tube / L1 = 0.65 m - 1.00 kg -40° C to +80°C / IP66 (j. box), +200°C rod tube / L1 = 0.65 m - 1.73 kg
Rods Weight Adder Tip P/N <b>HTR-TIP</b> Tip P/N <b>HTR-TIP-L</b>	Approximately 0.44 kg / meter Length 160 mm, 0.16 kg; <b>caution:</b> used on rods length L=0.5, 0.6, 0.7 only 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 P/N <b>HTSS-PP-230/110</b> P/N <b>HTSS-PP-230/110-CEX</b>	Operating Temperature / IP Rating / Weight / Material -40° C to +65°C / IP66 / 6 kg / c. steel powder-coated or option stainless steel -40° C to +65°C / IP66 / 20 kg / cast aluminum powder-coated or option stainless steel
HV Ignition Single Wire Cable Data P/N <b>HT-CAB-5</b> P/N <b>HT-CAB-5-CEX</b>  P/N <b>HT-CAB-5</b> and <b>HT-CAB-5-CEX</b> (5 m working length)	Type FZ-LSi, OD 7 mm, 15kV, wire 1.0 mm <sup>2</sup> , operating temperature -50°C to 180°C Type FZ-LSlekw, shielded, OD 8 mm, 15kV, wire 1.0 mm <sup>2</sup> , operating temperature -50°C to 180°C  Weight 0.37 kg and 0.42 kg

For more information, please [contact](#) your local Fireeye Distributor.

**fireeye.com**

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