



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 TX-230-8000 P/N TX-110-8000 | 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 HTSS-xxx-J P/N HTSS-xxx-CEX P/N HTSS-xxx-J-CEX | 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 HTR-TIP Tip P/N HTR-TIP-L | Approximately 0.44 kg / meter Length 160 mm, 0.16 kg; caution: 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 HTSS-PP-230/110 P/N HTSS-PP-230/110-CEX | 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 HT-CAB-5 P/N HT-CAB-5-CEX P/N HT-CAB-5 and HT-CAB-5-CEX (5 m working length) | Type FZ-LSi, OD 7 mm, 15kV, wire 1.0 mm ² , operating temperature -50°C to 180°C Type FZ-LSlekw, shielded, OD 8 mm, 15kV, wire 1.0 mm ² , operating temperature -50°C to 180°C Weight 0.37 kg and 0.42 kg |

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

fireye.com

MF-00-2-0080-0-035-B (2024/08)

All trademarks and service marks referred herein are property of their respective owners.

©2024 Fireye. All Rights Reserved.

Join us on 

