

Electrical Heavy Duty High Energy Spark Igniter HDHEI

For direct ignition of gaseous or liquid fuels

The SureFire II Heavy Duty High Energy Igniter (HDHEI) is designed for direct ignition of gaseous or liquid fuels like light and medium oil, heavy oil which can be steam, air or mechanically atomized.

The igniter creates three sparks per second of a very high energy of 24 joules per spark, sufficient for self-cleaning of the rod tip and for direct firing of heavy fuels in particularly difficult operating conditions e.g. wet, dirty (slag, ash, unburned fuel) environments. This high energy igniter is intended for intermittent operation as a Class 3 special igniter.

The igniter is made of high quality materials, and its components are rigorously checked and tested prior to dispatch. No moving parts and parts requiring adjustment help ensure long and trouble-free operation at low service costs.

All of this makes the heavy duty high energy igniter a reliable and effective source of direct ignition of gas burners and oil burners in heavy duty applications.

The SureFire II range includes:

- Integrated power pack with spark rod
- Split power pack and separate spark rod
- Portable battery-powered integrated power pack and spark rod
- Hazardous area power pack and spark rod options available
- Coaxial retractors with and without integrated solenoid valve
- Hazardous area solenoid available

Features

- Selectable voltage (115/230 VAC)
- Visual indication of spark operation
- Proof of spark relay
- Choice of system: Integrated, Kit, or Kit with Quick Disconnect



SUREFIRE™



Igniter HV Cable

Igniter Power Pack

Igniter Rod (with Tip)



Rod Tip

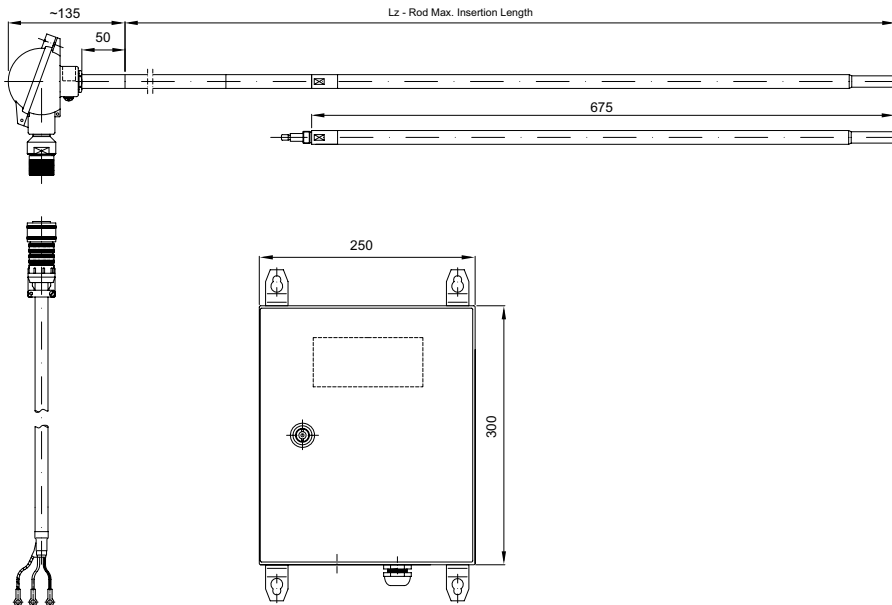


- Thermal cutout protection integrated in transformer
- Hazardous area options available
- Compact coaxial retractors
- Safety bleed resistor discharges capacitors in 120 seconds

SureFire II Igniters & Pilots

Specifications

Power Supply Voltage, Current	230/115 VAC (50/60 Hz) switchable at approximately 1.8/3.6 A, 220VA
Transformer Output Voltage	1,150 VAC (RMS)
External Protection	8 A, fuse type D (both voltages)
Secondary Circuit Maximum Voltage	2,300 VDC (output terminals to rod)
Method of Operation	Intermittent, 3 electrical sparks per second x 24 joules each (72 joules per second)
Operation Rating	100%
Operation Temperature / IP Rating	
Power Pack P/N HE-PP-24	-40°C to +65°C / IP66
Rod P/N HE-ROD-24-xxx	-60°C to +80°C / IP67 junction box, +300°C rod tube continuously
Rod Tip P/N HE-TIP-24-L	+300°C continuously, over +1,000°C in flame for short period (trial for ignition 5-10 seconds, repetitive in short periods)
Cable P/N HEC-24-5 or HEC-24-10	-60°C to +180°C
Rod outer diameter / outer tube material	16 mm / 316 SS
Available Rod Insertion Length	0.80 to 5.00 m
Rods Tip Working Length	
P/N HE-TIP 24-L	685mm
HV Cable	Two wire, shielded, OD 15 mm, 4,5Kv maximum, wire 1,5mm ²
Power Pack dimensions (LxWxH)	250 mm x 360 mm x 155 mm
Weight of Parts / Material	
Power Pack P/N HE-PP-24	9.8 kg / carbon steel powder-coated or stainless steel (option)
Rod P/N HE-ROD-24-0.9	(0.9 m long) 1.3 kg with rod tip / cast aluminum painted junction box, 316 SS tube
Rod Weight Adder	Approximately 0.75 kg per meter
Rod Tip P/N HE-TIP-24-L	0.7 kg / 316 stainless and heat-resistant steel
Cable P/N HEC-24-5 or HEC-24-10	2.0 kg or 4.0 kg



NOTES:

1. Device complies with the requirements of the European Directive 2011/65/EU (RoHS 2).

MARKING: The HDHEI 24 joule igniter was independently tested and evaluated by the EMC Accredited Laboratory. Assessment of compliance of the device with the essential requirements of the European Directive no. 2014/30/EU was carried out. Declaration of Conformity was issued and igniter was CE marked accordingly.

Refer to Bullet in SF-700 for more complete information.

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

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