

SureFire II™ Electrical Heavy Duty High Energy Spark Igniter



SUREFIRE™

Electrical Heavy Duty High Energy Spark Igniter

Type HDHEI igniter 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 3 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. in wet, dirty (slag, ash, unburned fuel) environment.

This High Energy Igniter is intended for intermittent operation as 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 ensure long and trouble-free operation at low service costs.

All of this makes HDHEI 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.
- ATEX, Power pack, and spark rods.
- Co-axial Retractors, with / without integrated solenoid valve.
- ATEX Solenoid.

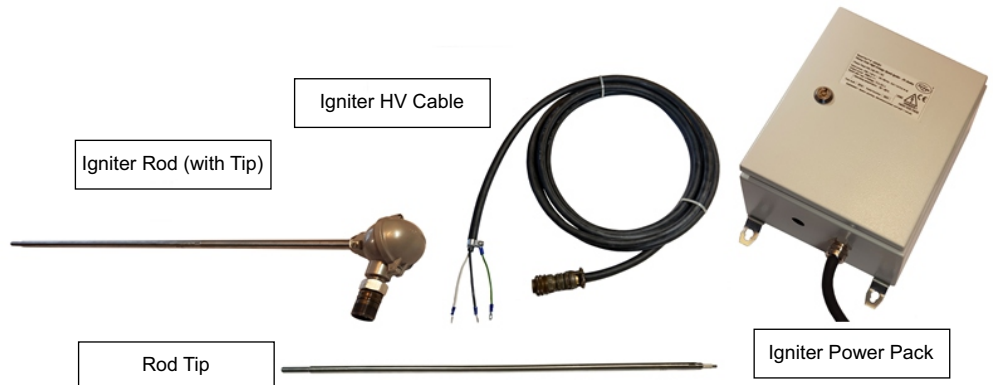


Features:

- Selectable voltage (115/230 vac).
- Visual indication of spark operation
- Proof of spark relay
- Choice of system, Integrated or Kit or Kit with Quick Disconnect
- Thermal cutout protection integrated in transformer
- ATEX options
- Compact "co-axial" retractors
- Safety bleed resistor discharges capacitors in 120 seconds.

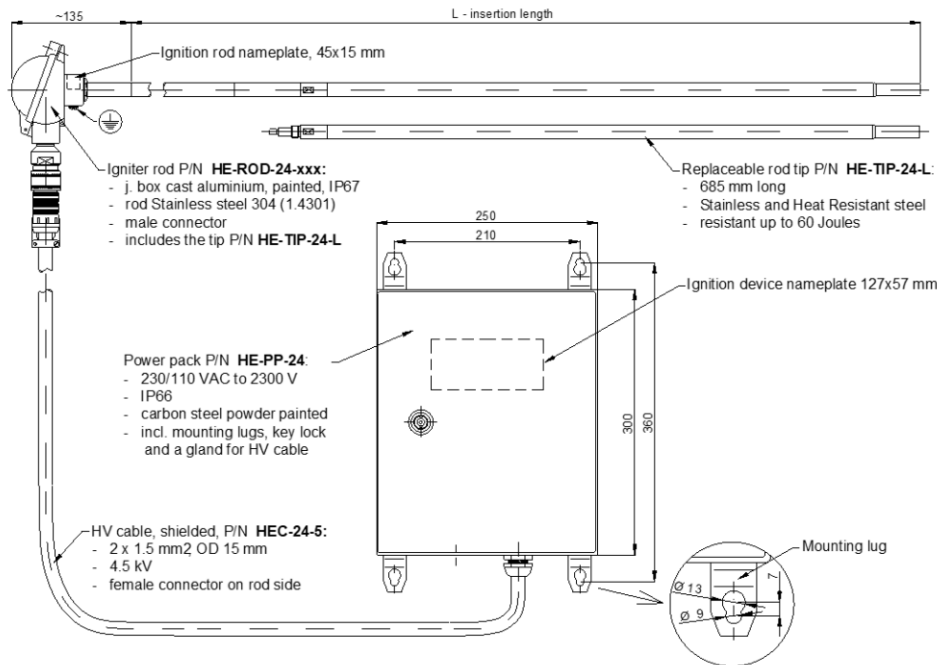


HEAVY DUTY
HIGH ENERGY SPARK IGNITER



Specifications:

Power supply voltage; current:	230/115 VAC (50/60 Hz) switchable, at approx. 1.8/3.6 A, 220VA
Transformer output voltage:	1,150 VAC (RMS)
External protection:	8 A, fuse type D (both voltages)
Secondary circuit max. voltage:	2,300 VDC (output terminals to rod) intermittent, 3 electrical sparks per second x 24 Joules each (72 Joules per second)
Method of operation:	
Operation rating:	100% (see remarks in p. 2)
Operating temperature, IP rating:	
–Power Pack P/N HE-PP-24	–40°C ÷ +65°C, IP66
–Rod P/N HE-ROD-24-xxx	–60°C ÷ +80°C, IP67 junction box, +300°C rod tube continuously
–Rod Tip P/N HE-TIP-24-L	+300°C tip 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 ÷ +180°C
Rod outer diameter, outer tube material:	16 mm, 316 SS
Available rod insertion length L:	0.80 ÷ 5.00 m
Rod Tip P/N HE-TIP-24-L working length:	685 mm
HV cable:	two wire, shielded, OD 15 mm, 4,5kV max, wire 1,5 mm ²
Power Pack dimensions (L x W x H):	250 x 360 x 155 mm
NOTE:	Refer to Bulletin SF-700 for more complete information.



Fireye is a leading manufacturer of flame safeguard controls and burner management systems for commercial and industrial applications throughout the world. Our products can be found in a variety of public buildings, commercial properties, power plants, pulp and paper mills, petrochemical facilities and food processing plants. Fireye is a part of Carrier (NYSE: CARR).



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Specifications, Continued:

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 j.box, 316 SS tube
- Rod weight adder: approx. 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.

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