

## Flare & Burn Pit Ignition Panel (Direct Electronic Spark)

KSC has experience of manufacturing direct electric ignition of flare units. A reproducible, high energy, highly reliable spark that is not susceptible to external influences such as moisture and dirt, guarantees the safe ignition and combustion of the residual gas in the flare.

Such direct electric spark ignition may, for example, be used in flares firing coke oven gas and flares where fuel gas containing a minimum of 6% hydrogen is burnt at relatively low flame velocities in the flare head.

In addition, the spark ignition module employed by KSC offers the decisive advantage of thyristor- controlled circuitry that is not subjected to wear and tear. The ignition system is designed to withstand the long operation and maintenance cycles typical for these types of industries.

This equipment is unique because the flare gas is directed to the same ignition zone ensuring ignition regardless of wind speed, wind direction or other environmental factors. The igniter flame is monitored and proven by a data logger or temperature switch, making this Direct Spark Igniter system comply with standards IPS and API 537.

Voltage configurations for the control panels include 220 VAC.

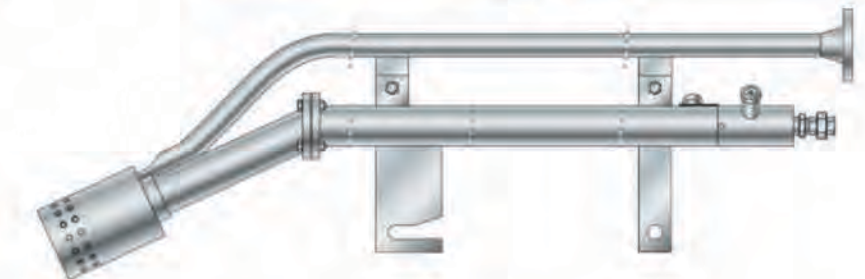
Retractable systems for this equipment are available.

The Direct Spark Igniter is available in straight or bent tip configurations.



## Material Specifications

- Component: SS 316L
- Piping: SS 316L / Carbon Steel
- Head: SS 309 / SS 310
- Pilot gas line: SS 316L
- Exciter line: SS 316L
- Inspirator: SS 316L / Cast Iron
- Fuel: Natural gas, propane, butane



## Advantages

- Rapid Re-ignition response time
- Ease of installation and/or retro-fit applications
- Durability due to high alloy, SS construction
- Temperature indicator switch
- Ignition transformer
- Explosion proof electrical devices
- Flame stability: wind velocities up to 150 mph (240 km/hr)
- Moisture, dirt, oil and grease do not affect the ignition
- No limitation for cable length
- Low power consumption
- Insensitive to process pressure
- Tension is low in comparison to traditional ignition sources

## Applications

- Coke oven flares
- Pipe flares with hydrogen in the waste gas
- Temporary flares from tank farms
- Burn Pit