

CONVEYOR OVEN IGNITOR / SENSOR SPECIFICATIONS

Overview:

This Stainless Steel Rectification Ignitor/Sensor is specifically designed to provide highly reliable burner ignition and flame sensing when used in a Conveyor type oven. It is designed to be used at the far end of the burner to detect the flame and on the infeed end of the burner to ignite the flame. As an ignitor, it sparks to itself, directs the fuel to the ignition point and provides minimum capacitive load on the ignition system. As a flame sensor it captures the flame and provides the maximum amount of flame signal to keep the burner solenoid valve open. It is simple to install and maintain and its adjustment is less critical under adverse operating conditions.

Operation:

At the Lighting End:

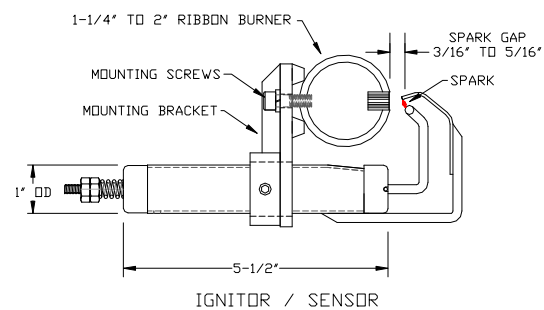
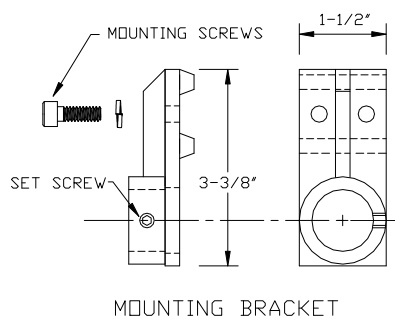
Used as an Ignitor the spark gap is preset within the ignitor itself, when the end of the ignitor is presented with fuel, the burner will always light. The rectification cup channels the fuel to the ignition point. It connects to the existing high tension ignition lead.

At the Sensing End:

Used as a Sensor, the design allows independent adjustment of the rectification gap and ignition points and provides a favorable rectification environment through all rates of fire. It connects to the existing sensing lead.

Specifications:

- Fits ribbon burners of any length and in sizes from 1-1/4" to 2" Dia.
- Extremely rugged construction
- Fits most conveyor oven burners
- Requires Banner-Day mounting Bracket
- Ni-chrome ignitor materials yield long service life
- Ignitor / Sensor grounds results in reliable operation
- Since the Ignitor / Sensor is tightly mounted to the burner, spacing is maintained as burner bows with heat
- Ignitor uses standard Rajah connectors



* United States Patent No. 6,808,389

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