

# FlameGard™ IR<sup>3</sup> Flame Detector

Optical flame detection is essential where the threat of accidental hydrocarbon fires can have serious consequences. Some locations that use optical flame detection include:

- Flammable liquid or gas storage
- Pumping facilities
- Aircraft hangars
- Automotive manufacturing
- Refineries and petrochemical plants
- Printing
- Electrical power plants
- Resin and paint manufacturers.

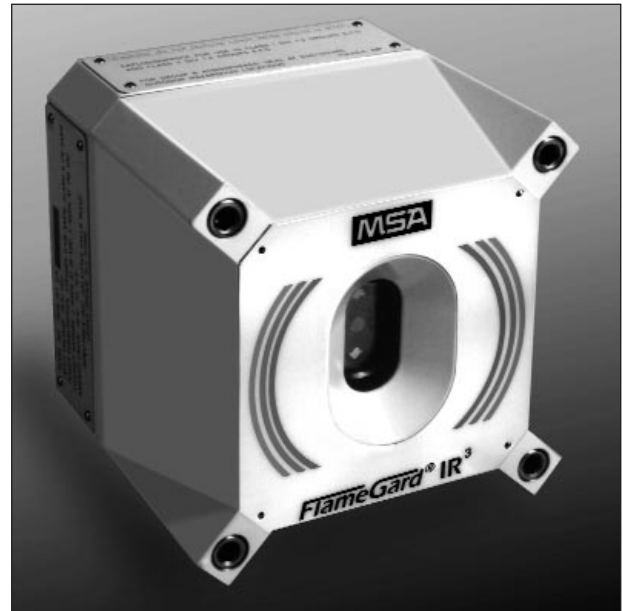
Only the FlameGard IR<sup>3</sup> Flame Detector from MSA uses a patented triple-infrared detection technique. The patented triple IR design offers two to three times the detection distance of any conventional IR or UV/IR detector. This technique uses the signal from three different sensors, each looking at a different infrared frequency. All the signals are checked for the proper ratio and relationship to each other before an alarm is given. This enhances the immunity to false alarms.

This immunity to false alarms is not at the expense of sensitivity to a real fire or flame condition. In fact, the FlameGard IR<sup>3</sup> Detector can detect a 1x1 square foot gasoline pan fire at 200 feet in less than three seconds. This is three to four times the distance of a regular UV or UV/IR flame detector.

Along with the 4 to 20mA and RS-485 outputs, there are alarm, accessory and fault relays within the unit, the manual or automatic built-in test features will completely functionally test the unit as desired or routinely during operation.

## Applications

The FlameGard IR<sup>3</sup> Flame Detector has been designed as a general-purpose flame detector. It has applications in a wide range of industrial and commercial facilities, where the threat of accidental fire involves hydrocarbon fuels such as gasoline, hydraulic fluid, paint, various solvents, aviation fuel, natural gas, propane, acetylene, etc.



## Features

- Factory Mutual, CSA and CENELEC Approved
- Extra Long detection distance, up to 200 feet
- Stand alone operation or connection to standard four wire fire control panels
- 100,000 hours minimum calculated Mean Time Between Failure (MTBF)
- Heavy duty, NEMA 6P enclosure
- Easy to install, operate and maintain
- User programmable to various configurations
- 3 Year Warranty.

