MSA’s FlameGard 5 MSIR Detector is an advanced multi-spectrum flame detector designed to provide more data, increased detection distances, excellent immunity to false alarms, faster response times and better performance under various environmental conditions.

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<th>FEATURES</th>
<th>BENEFITS</th>
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| **MULTI-SPECTRUM IR (MSIR)**      | *SENSOR ARRAY* Uses a four sensor array; two sensors look for distinct IR frequencies in the CO2 spike of a fire, while the other two sensors are designed to eliminate false alarms.  
100 degree cone of vision that detects a 1 sq. ft. fire at 230 feet.  
Provides increased range of up to 230 feet, and a wide field of view.  
Response time of <10 seconds for rapid detection and alarming.  
Arc welding minimum immunity distance 5-15 feet.  
Greater range and wider field of view reduces the number of detectors necessary in many applications, thereby cutting total installation costs |
| **NEURAL NETWORK TECHNOLOGY (NNT)** | An intelligent technology with the key element being the ability to be trained to differentiate between real threats and normal events, resulting in exceptionally reliable flame protection with superior false-alarm immunity.  
Accurately discriminates between actual flames and nuisance false alarm sources (such as those caused by lightning, arc-welding, hot objects and other sources of radiation). |
| **STAINLESS STEEL HOUSING**       | Explosion-proof stainless steel housing for corrosive and marine environments                                                                 |
| **CONTINUOUS OPTICAL PATH MONITORING (CoPm)** | Checks both the optical path integrity (window cleanliness) and the detector’s electronic circuitry once every minute to ensure accurate monitoring. |
| **MULTIPLE COMMUNICATION OUTPUTS** |                                                                                                                                 |
| **DUAL-REDUNDANT MODBUS**         | **Communicates via RS-485 interface for remote operation; registers provide alarm status, fault and other information for operating, troubleshooting or programming the unit.**  
Serial communication port(s) allow up to 128 units (247 using repeaters) to be linked to a host computer using the ModBus RTU protocol. |
| **0-20MA OUTPUT**                 | Digital communication signal super-imposed on the mA analog signal.  
HART Industry standard output signal for communication with remote alarms. |
| **EVENT LOGGING**                 | This standalone diagnostic tool records time, date and type of event.  
TEST LAMP Gives the ability to check and ensure our product can do what it’s supposed to do; detect a fire. |
| **APPLICATION VERSATILITY**       | This flame detector is a cost effective tool to protect lives and inventory making it ideally suited for the following applications:  
• Drilling and Production Platforms  
• LNG/LPG Processing and Storage Facilities  
• Fuel Loading Facilities  
• Compressor Stations  
• Aircraft Hangars  
• Refineries  
• Chemical Plants |