

Fast Response *Industrial Fire Detection Sensors*



Fire Detection should be *easy*. Users shouldn't have to hassle with complicated setup procedures, constant maintenance, or periodic calibration. MPS Fast Response Sensors offer a simple, all-in-one design. A sophisticated internal microprocessor eliminates external controls. An integrated 4-20mA connection allows for use with plant PLC, while digital contacts can be used for a separate alarm and remote testing, for stand-alone operation.

Fire Detection should be *accurate*. From large areas to small enclosures, indoors or outdoors, well lit or dark, a wide selection of sensor types allows us to offer the best sensor to suit specific application variables, eliminating false alarms.

Fire Detection should be *reliable*. Our sensors are designed for long life in the harshest of environments. We use rugged Die Cast Zinc Alloy housings and high quality components. To eliminate scratches and chipping, only the toughest pyrex is used for our windows and lenses. Expect long life and minimal maintenance.

IR₂

IR₃

UV
IR

MPS Talentum sensors detect flicker from any spark or flame, while rejecting static radiation from warm objects. The use of multiple proprietary photocells allows for accurate, reliable detection in various conditions, and results in a high tolerance to dust and condensation. Even in the most difficult applications, where false alarms may plague other sensors, our use of IR, UV or a suitable combination of advanced photocells provides accurate, reliable protection.

MPS Fast Response Industrial Fire Detection Sensors can help:

Minimize down time. Quick notification of spark or flame saves equipment and lives. Loss of equipment through fire and explosions can have a devastating effect on business. Speed of response is of the utmost importance.

Protect your productivity. Although damaged equipment can be replaced, it is impossible to regain lost production. Properly installed fire and spark detection systems eliminate the possibility of irrecoverable production.

Increase safety in remote locations. In areas where automation has eliminated workers from the process, such as crusher houses and tunnels, install reliable, fast response fire and spark detection. The difference between a minor situation and a catastrophe can be a matter of seconds.

Reduce insurance premium costs. Users report reductions in insurance premiums, by implementing high-quality, fast response infrared and ultraviolet fire detection sensors.



We offer a wide range of sensors, to suit a wide range of applications:

- Single Infrared (IR)
- Dual Infrared (IR2)
- Triple Infrared (IR3)
- Ultraviolet (UV)
- Ultraviolet/Infrared (UV/IR)

Front-viewing sensors for monitoring rooms and open areas. Rear-viewing sensors monitor chutes, ducts, and various enclosed structures. Indoor and outdoor use. All with rugged Zinc Alloy housings and heavy-duty components.

Let us assist you in choosing the best sensor type for your specific application.

Your job just got easier.

- EASY*
- ACCURATE*
- RELIABLE*

MPS Talentum is proud to offer UL Certified Explosion-Proof Sensors.

Like all of our sensors, they offer adjustable sensitivity and variable time delay.

All sensors are able to operate on conventional 2 wire (14-28Vdc) fire systems or 4-20mA process control systems. Relay contacts are also available for Fire and Fault signals. The sensors operating modes are user selected, giving a choice of alarm currents, response times, latching or non-latch outputs and sensitivity. Internal self-test sources will check the sensors operation when remotely instructed.

The MPS Test Unit offers a simple and reliable way to test a full range of flame sensors and fire detection sensors.

Featuring a wide spectral output, it is designed to test multiple sensor types, including:

- Ultraviolet (UV)
- Infrared (IR)
- Dual-Infrared (IR2)
- Triple-Infrared (IR3)
- Ultraviolet/Infrared (UV/IR)
- Mid-Infrared
- Near-Infrared
- Visible Light

Selectable output generates constant illumination, regular flashing frequencies, and irregular flashing frequencies (simulating flickering flame).

The Test Unit is completely portable, with rechargeable NiCad battery pack and charger, with auxiliary 24V DC supply.



MPS TALENTUM is a unit of Mine & Process Service Inc., representing Talentum Developments Ltd. in North America. Since 1968, Talentum has been providing fire detection and flame monitoring equipment for industry around the world. Specializing in industrial grade sensors for harsh environments, equipment has been in operation in the United States since 1987. Talentum, together with MPS Inc.'s more than 20 years of experience, provides sound technology for industry today, helping plants increase safety and efficiency.