



Simplex

Addressable MX Technology Detectors

Experience superior fire
detection and maximum
uptime

Simplex products are known for leading innovation. One way we do this is by enhancing our sensor technology to provide our customers with the most advanced solutions for the varied challenges they encounter. Throughout our long history, we have perfected the capabilities, intelligence and technology inside our detectors to improve safety in even the most challenging environments.

Leading innovation. Each year, we invest millions of dollars and countless hours in the development of new technologies to help safeguard lives, property and the environment.

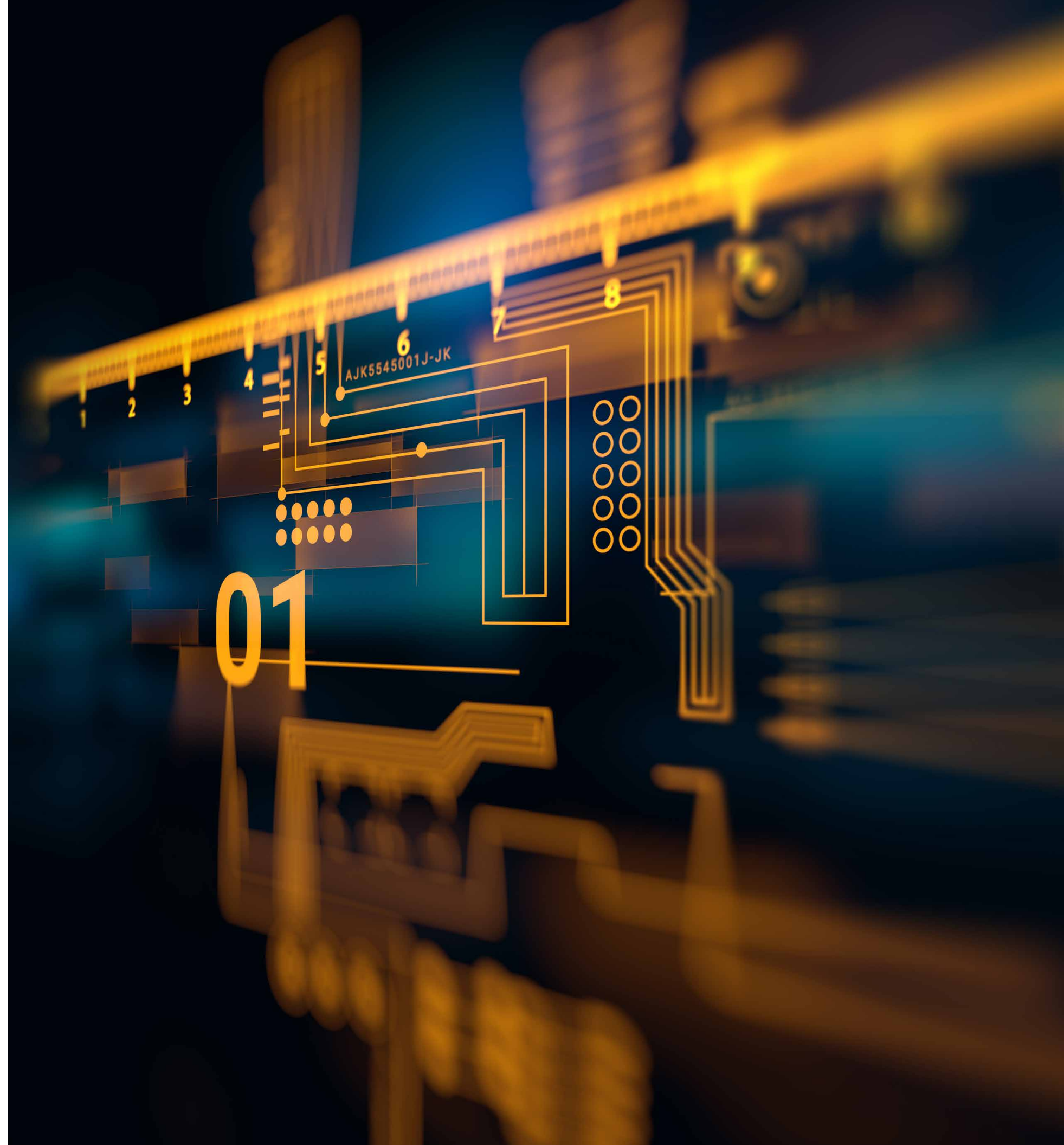
Research and revolution. Supported by our advanced research and development facilities and modern manufacturing platforms throughout the world, our solutions deliver measurable value, performance and sustainability.

Performance and reliability. We understand that a fire detection system is crucial to the safety and protection of a building and its occupants. People rely on this system every day to help keep them safe and alert them at the earliest possible sign of danger.

Our MX Technology Detectors series has been developed to help ensure optimum detection performance, reliability and false-alarm resilience.

Customer focus. We pride ourselves on an ongoing commitment to integrate insights from people who use and interact with our products, ensuring we're always evolving and developing the most innovative new solutions.

We work with our customers to achieve their safety and business goals by finding smarter ways to protect where people live and work – a promise we have delivered on for more than 100 years.



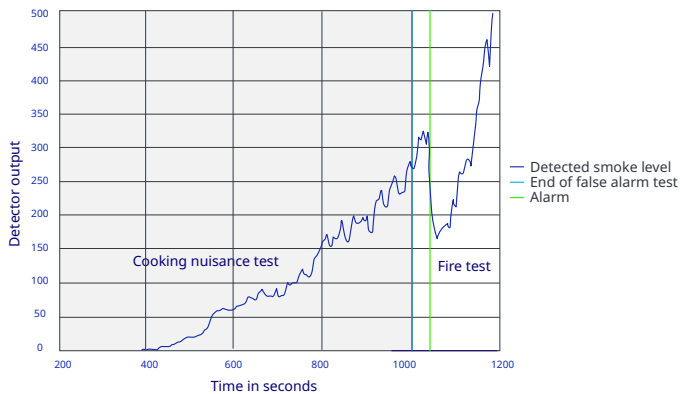
MX Technology Detectors

MX Technology addressable fire detector with MX and SSD style enclosure



Advanced fire detection algorithms enhance detector performance

Implement advanced fire detection algorithms to improve resistance against nuisance alarm sources and comply with UL268 7th Edition standards for reduced cooking nuisance alarms.



Alarm algorithms are specifically developed to detect smoke from a fire while rejecting nuisance cooking alarms.

These results come from a UL test where a false alarm test is conducted followed by an immediate fire test. The objective is to ensure the detector does not trigger a false alarm but remains sensitive to actual fires.

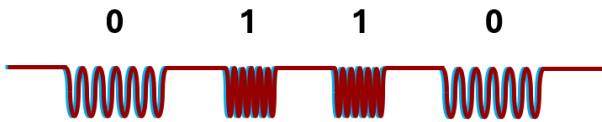
Digital communication protocol

Ensure maximum speed and reliability in harsh electrical environments.

Digital communication protocol offers

- Long loop length up to 2 km
- Compatibility with a wide range of cable types
- Excellent for retrofit applications
- Existing cables can be reused for upgrades

Powerful and robust digital protocol for high reliability and flexibility in installation
The MX Device employs advanced and highly reliable digital communication protocols to transmit information to the fire control unit. This enhanced communication with the panel aims to achieve more accurate fire detection and faster response times.



About

- Digital communication protocol
- Advanced fire detection algorithms
- Excellent detection and greater fault tolerance
- Better environmental performance
- Safer, easier and quicker to install
- Faster and error-free addressing using Digital Enrollment
- Lower lifetime cost

A system you can rely on
The MX Technology Addressable Detectors range is designed for a variety of environments and can be configured to deliver superior detection for numerous fire risks.



The MX Technology Addressable Detectors range



4098-5256 MX Photo Sensor
4098-5266 MX Photo Sensor with Isolator
4098-5292 MX SSD Photo Sensor
4098-5288 MX SSD Photo Sensor with Isolator

A choice of several programmable sensitivities gives this sensor a broad range of applications.

The optical sensor is ideal in benign environments where potential fires would be slow burning.

Operating mode: Photo sensor

4098-5255 MX Photo Heat Sensor
4098-5265 MX Photo Heat Sensor with Isolator
4098-5291 MX SSD Photo with Heat Sensor
4098-5287 MX SSD Photo with Heat Sensor with Isolator

Ability to detect a wide range of fires from flaming to smoldering types.

Combined photo and heat multi-sensor device is the preferred choice for a range of applications including light industrial, retail and office environments.

Operates in a number of configurations and sensitivities that can be dynamically selected via software to suit different environmental conditions.

Operating modes

- Optical
- Heat enhanced optical
- Fixed alarm level temperature



4098-5257 MX Heat Sensor
4098-5267 MX Heat Sensor with Isolator
4098-5293 MX SSD Heat Sensor
4098-5289 MX SSD Heat Sensor with Isolator

Can operate in fixed temperature and rate of rise modes with a number of approved sensitivities.

Used in areas where high levels of dust are present or where the environment precludes the use of smoke sensors.

Operating modes

- Fixed alarm level temperature 135°F (57°C)
- Fixed alarm level temperature 200°F (93.4°C)
- Rate of rise 15°F (8.4°C)



4098-5268 MX Triple Sensor with Isolator
4098-5290 MX SSD Triple Sensor with Isolator

High-performance multi-sensor technology and leading false alarm protection.

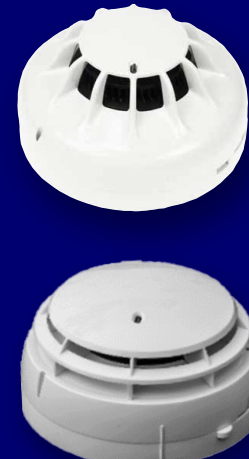
Monitors smoke, heat and carbon monoxide (CO) levels simultaneously. Designed to quickly and accurately determine the presence of fire.

False-alarm rejection properties make it the ideal choice for hotel bedrooms where steam from bathrooms is a common source of false alarm.

Designed for use when the environmental conditions are challenging, for example, industrial, transport hubs and healthcare.

Operating modes

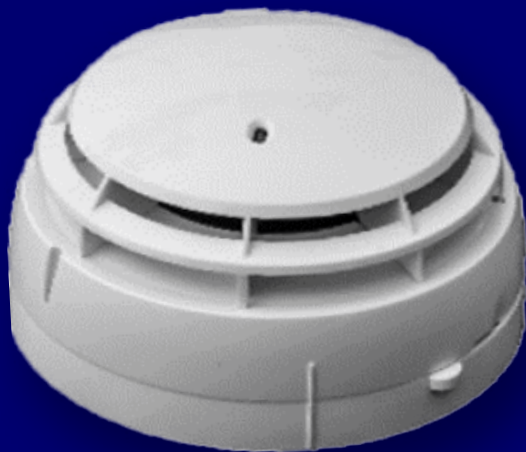
- Universal
- Resilient
- Heat enhanced optical
- Fixed alarm level temperature 135°F (57°C)
- Toxic CO gas only



Protect what matters most, your way



MX Style enclosure:
MX Technology Sensor with MX Style enclosure using soft addressing method



SSD Style enclosure:
MX Technology Sensor with SSD Style enclosure using soft and hard addressing method

Easily configure to your needs

With Simplex MX Technology detectors, you have the flexibility to alter the device’s sensitivity to heat, CO and smoke, depending on the application, risks and time of day.

Product	Clean Room, Data Processing Suite	Offices, Retail, Hospitals, Hotels, Light Industrial, Residential, Passenger Cabin	Warehouse with Diesel Forklifts, Heavy Industrial Ferry (Car Deck)	Livestock Pen, Mill, Laundry, Changing Room	Kitchen, Engine Room, Test Beds	Atrium, Theater, Hangar, Oil Rig, Turbine Hall
Photo Sensor	✓	✓	-	-	-	-
Heat Sensor	-	-	✓	✓	✓	✓
Photo Heat Sensor	✓	✓	✓	✓	✓	✓
Triple Sensor	✓	✓	-	✓	✓	✓

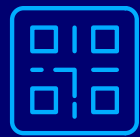
Apart from choosing the correct sensor, it is important that each unit is set to the operating mode that suits the area being protected. MX Technology multi-sensors provide the flexibility to dynamically adapt to an environment depending on the application, risk levels and time of day. The mode of operation will determine sensitivity to smoke,

heat and CO, helping to ensure optimum performance at all times.

Multiple modes of operation can be used concurrently with both the photo-heat and MX Technology multi-sensors. As an example, an MX Technology multi-sensor can operate as a high-performance optical sensor, a heat

sensor and a heat-compensated CO sensor simultaneously, with different alarms causing different actions.

This ability to employ multiple modes can be used to provide alarm verification without the need for multiple devices.



Digital Enrollment app offers a reliable, cost-effective addressing method for detection devices using a mobile device and QR code.

Installation and configuration are quicker, easier and more reliable.

Many challenges, one solution

MX Technology addressable multi-sensors can help to protect a wide variety of environments.

Commercial



Challenge

In large commercial buildings there are often multiple tenants occupying the space for different activities, including office space, call centers, dining areas, small shops and gyms. It's a challenge to find detection solutions that can satisfy the needs of a multi-use building and help you eliminate alarms.

Solution

MX Technology addressable multi-sensor devices can help you overcome many challenges. The multi-sensor device has six detection modes and employs three detection technologies: heat, smoke and toxic gas (CO).

These sensors can be used in concert to provide optimum detection based on the occupancy and risk. This is an ideal solution for commercial buildings with varying fire detection needs as sensor modes can be adjusted to suit each environment. Changing modes can be as easy as pressing a button

Manufacturing



Challenge

Byproducts of manufacturing processes – such as dust, heat and smoke – can create a difficult environment for the fire detection system and are frequent causes of false alarms.

on the panel or, if permanent change is required, it only takes a simple software reconfiguration. Quick, easy and no hardwired changes are required.

A highly desirable feature for manufacturing applications is the MX Technology addressable multi-sensor device's programmable day and night mode. This means that during the day when the building is fully occupied and running, heat and CO sensors can monitor for fire while the smoke elements can be turned off or set to low sensitivity. Smoke elements can be turned back to their normal mode at

Hospitality



Challenge

In a hotel environment, en-suite shower facilities will often generate steam when in use. This could trigger a photoelectric reaction, resulting in a false alarm and inconvenience to customers.

night when daily activities have ceased and the building is likely to be most at risk.

The ability to adjust and set the sensitivity levels of the MX Technology Addressable Detectors is an important feature in hospitality settings (hotel or motel), college dormitories and other similar environments. With the ability to set the device to low sensitivity to steam from showers, while it remains highly sensitive to heat and toxic gas (carbon monoxide), the MX Technology Addressable Detectors provides the ideal solution.



About Johnson Controls

At Johnson Controls (NYSE:JCI), we transform the environments where people live, work, learn and play. As the global leader in smart, healthy and sustainable buildings, our mission is to reimagine the performance of buildings to serve people, places and the planet.

Building on a proud history of nearly 140 years of innovation, we deliver the blueprint of the future for industries such as healthcare, schools, data centers, airports, stadiums, manufacturing and beyond through OpenBlue, our comprehensive digital offering.

Today, with a global team of 100,000 experts in more than 150 countries, Johnson Controls offers the world's largest portfolio of building technology and software as well as service solutions from some of the most trusted names in the industry.