



The benefits of installing **MZX Technology into a warehouse facility**

// Overview:

The Requirements for installing a suitable fire detection and alarm system within a warehouse facility would require as a minimum a manual system. This system is often combined with automatic detection usually at the request of the insurers. Warehousing can vary enormously in size and process. Height is also a factor when planning fire detection, and warehouses can be very challenging to the designer. Alternatives to the standard point detection systems are smoke beams, and aspirating systems within storage racking, providing the solution for a sensitive yet stable fire detection solution.

The **MZX** fire detection and alarm offers a wide range of systems that either connect directly or interface to the addressable digital loop, offering a broad spectrum of solutions to meet these challenges. Some of the systems key features are highlighted below.

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// **Risk:** Distribution warehouses are difficult places in which to work, require specialist platforms for working at height and present on-going problems for maintenance and repair.

During the initial install period these problems are more easily overcome, as the building, usually under construction, is unoccupied and not a functioning warehouse. Once up and running however access is restricted not least because of the height and narrow aisles created by the storage racks. Reliability is therefore key to systems installed in such buildings as remedial works to replace or relocate equipment is difficult, time consuming and costly.

// **Solution:**

By specifying and installing an **MZX technology** system we offer reliability in all of our components. The **850 (sixth generation) addressable point detectors** have added protection applied to printed circuits and vital components to enable them to survive in difficult environments. **Threshold compensation** overcomes the effects of dirt and dust and prolongs the life of the detector reducing lifetime costs. The **Fire Ray 5000 Smoke beam and Beam detector Module, BDM800**, allows direct connection to the addressable loop, saving wiring and associated costs. The beam detector is motorised so if the beam alignment shifts due to building movement, it realigns itself automatically. The **ICAM AS 460 and 461** single or dual air sampling system combines the best of the **850PC mutisensor** with proven air sampling techniques. The **Vesda Laser Compact, Laser Plus and Scanner units** connect directly to the loop or via the **VIO800 MX Vesda Interface**.

This form of detection is ideal within racking where plastic pipes are all that exist and can easily be protected against the risk of mechanical damage. In MZX Technology, integration of these systems is well thought out, engineered, tested and fully supported and certified to **EN54-13 Compatibility of Components and Systems, as certified by VdS**.

// **Risk:** What happens if by accident the system is activated? This is still referred to as an unwanted alarm, which could be caused by accidentally operating a manual call point, or some unusual occurrence close to a sensor.

The incident, whilst not really being a malfunction, still causes the same amount of disruption with the same consequences, as that of a genuine alarm.

// **Solution:**

When configuring the system cause and effect, (what happens when a device goes into alarm), the **MZX configuration software** allows devices to be configured to work individually and instantly, individually and after a delay, or in conjunction with another device. This enables the designer to programme out some of the high risk unwanted alarm causes by introducing, delays or confirmation from a second device before the system goes into full alarm. First stage alarms can be investigated quickly and without disruption as every MZX control panel has an **investigate delay programme** ensuring that a procedure is followed within recognised time constraints. Firstly to confirm that someone has been to the panel and has acknowledged the incident, and then to ensure a further response, either to isolate the device if the alarm is found to be false or to sound an evacuate signal if genuine.

// **Risk:** One of the most common causes of unwanted alarms within a warehouse is from the exhaust of a diesel operated fork lift.

Do you compromise the detection system in order to avoid this problem. Any compromise isn't just for that period when the forklifts are operating.

// **Solution:**

All MZX Control Panels incorporate Day/Night Mode. The **DAY MODE function** can be initiated in various ways, manually or automatically, to introduce a short delay allowing an investigation of the incident, or to switch modes or sensitivity

settings on the sensors. The **850 PH and PC** Addressable mutisensor detectors can be programmed in such a way that at certain times of the day, when the building is fully occupied and the risk of fire going undetected is low, the smoke elements can be turned off or to low sensitivity and then turned back to their normal mode and sensitivity during unoccupied periods when the building is most at risk. **MZX control panels offer full functionality with simplistic operation.**

// **Risk:** Working at height and in confined spaces increases the time taken to install commission and service equipment or indeed to make changes to equipment at high level.

Often special platforms are required in distribution warehouses due to the height of the racks and the narrow aisles between them. Disruption is inevitable and can affect productivity. Out of hours working whilst overcoming these difficulties, adds substantially to the lifetime costs of the system.

// **Solution:**

The **850 Engineering Management Tool** is a powerful and flexible tool used during the installation, commissioning and servicing of MZX 850 series devices. The tool provides Infra-Red communication with the generation 6 device, up to a distance of 15 metres, which is especially beneficial where height and access is a problem. It contains the system's configuration programme and can read and write to detectors and ancillary devices. The unit will display the detector's outputs, (temperature, CO and smoke obscuration levels), and has the ability to test both the device's led and control outputs. The tool can be used to change the devices settings and will record and store any changes made, providing a valid audit trail. Service data is also stored and offers a true record of all devices, detectors, ancillaries and sounders that have been tested during the visit. All data is stored onto a USB flash drive. **MZX technology continues to offer value throughout the lifetime of the system.**

ZETTLER, is a leading brand of fire detection, security, and care communications products in the European market. The ZETTLER fire detection product line includes a wide range MZX TECHNOLOGY EN54 CPD approved fire detection products carrying approvals and cross-listings, including VdS and NF, for all European countries. The ZETTLER care communications product line is a technology leader providing the latest IP based Nursecall, Emergency Call, Communication and Management solutions for care homes, hospitals, prisons, and related markets. The ZETTLER product lines are available through ZETTLER dealers as well as many ADT and Tyco offices around the world. For more information, visit www.tycoemea.com.