



## The benefits of installing **MZX Technology into a Hotel**

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### // **Overview:**

The Requirements for installing a suitable fire detection and alarm system within a hotel would normally need to cover all escape routes and adjacent areas, where if fire broke out it could have an effect on those escape routes. Other high risk areas such as plant rooms, switch rooms and kitchens might also contain detectors. Most bedrooms should contain some form of fire detection as a likely scenario would be a fire starting in a bedroom from a discarded cigarette. The reliability of the system is paramount as its primary function is to protect life. It is therefore vital that the chosen system provides effective cover, performs reliably, and causes the minimum of disruption to the operation of the building and its occupants.

The **MZX** fire detection and alarm system is a complete system from a single manufacturer designed to provide optimum performance at all times. Some of the systems key features are highlighted below.

# The Benefits of installing MZX Technology into a **Hotel**

// **Risk:** Most Hotel Bedrooms have on-suite containing bath and shower. Both of these can generate substantial amounts of steam which is known to trigger some smoke detectors.

How do we prevent this from happening as the disruption factor could be extreme. Guests inconvenienced if sleeping, eating in the restaurant, relaxing in the bar, or in a meeting or conference in one of the hotel meeting rooms. The hotel could be faced with dis-satisfied customers, and find themselves paying compensation and/or losing future custom.

// **Solution:**

By installing the **850PC mutisensor** in each bedroom, the steam escaping from the on-suite facility **WILL NOT** trigger an alarm. However the sensor is still highly sensitive to the products of combustion generated by a smouldering fire and will raise an alarm even before a normal sensitivity smoke detector, based on its ability to sense the combustion gas, Carbon Monoxide, from the fire. The 850 series of sensors are available in 10 standard colours, to match most decors, are available with and without an integral short circuit isolator and use sophisticated digital signalling to ensure reliable communications with the MZX control panel. A hand held engineering management tool communicates with the sensor via a 2 way infra-red link making access for servicing and testing easy and fast, from floor level with no need for steps or ladders.

// **Risk:** Fire Doors in a building such as a hotel are a vital part of the life safety aspect of any fire strategy.

Smoke can spread quickly to essential escape routes such as corridors and stairwells restricting access and denying occupants safe escape from the building; fire door monitoring is therefore important. Is the door capable of closing, are all parts of the necessary linkage from detector to release device connected, powered and free from fault. The simplest way of providing a link between the detector, trigger device, and the door is via a relay. The relay however is a simple device; it needs an instruction before it can operate. How sure can you be that it will work when called upon to do so?

// **Solution:**

By specifying and installing an MZX system, fire doors will be connected to a **TSM800 Door control module**. The TSM800 is designed especially for fire doors. It has a self-monitoring system that monitors communication with the control panel and detects the presence of the line voltage. It also monitors the essential secondary supply that feeds the door hold magnet. The system will detect isolations as well as faults ensuring that no part of this essential linkage is isolated without knowing. If a fault or isolation is detected the module will release the door to its closed position thereby ensuring that if a fire were to break out during this not normal status, the door is already closed ensuring exit routes are kept free from smoke at all times.

// **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, or someone smoking a cigarette under a sensor.

The incident, whilst not really being a malfunction can still cause the same amount of disruption as that of a genuine alarm. To avoid unnecessary disruption to guests, incidents will often be investigated before evacuation takes place. When taking this course of action speed is of the essence as delays will undoubtedly increase the risk to all occupants.

// **Solution:**

Any investigation needs to be carried out quickly and under strict controls ensuring that time limits are in place and if exceeded, the system will automatically sound a full evacuation alarm. MZX provides two essential components to ensure a quick and accurate investigation of an alarm from a detector. Every MZX control panel has an **investigate delay programme** ensuring that a procedure is followed within those time constraints.

Any search needs to be on the basis of a single device, there is no time to search an

area the size of a zone. All MZX systems can incorporate the **MZX Pager Interface** which delivers serial data to any number of receivers which can be carried by hotel staff. The pager will display the alarm or fault status of every device, displaying the type of event, device type and its location. MZX technology will ensure that in the unlikely event of unwanted alarms, disruption is minimised by ensuring swift and accurate response.

// **Risk:** In any kind of sleeping risk awaking a sleeping person is always going to be a challenge.

In a hotel where most occupants are probably unfamiliar with their surroundings, providing an early warning of fire is essential to life safety. **That's why sounder testing** is a vital part of the on-going procedure to ensure a fully operational system. The added workload in a hotel is as a result of having to enter every bedroom in order to test the sounder.

// **Solution:**

Every MZX control panel programme has the ability for sounder tests to be set up and run from the panel. **Reflective Sound Monitoring** enables all sounders to be tested at high volume simply by initiating a test for approximately 15 seconds, after which any sounder not operating will be reported back to the control panel. Sounders can be tested in groups, floor by floor, zone by zone, depending on how the test is set up. An essential operation that could take two or more persons a full day can now be completed single handed in a matter of minutes.

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](http://www.tycoemea.com).