ZETTLER

sirus
TEKNOLOJİ - MÜHENDİSLİK

ZETTLER Fire Detection European Product Catalogue

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Your ideas are a reality to us

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 CPR 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 Tyco offices around the world. For more information, visit www.zettlerfire.com

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Addressable Systems

MZX technology embraces the best in both analogue and digital electronics to provide fast and accurate fire detection. Extensive loop addressing and communication over a 2km loop using digital protocol to a central processing location, provides reliability and a lifetime of economy. A comprehensive range of sensors, sounders and beacons, ancillaries and call points ensure there are no compromises when designing systems. Progressive software development keeps pace with new technology and a comprehensive range of available spares together with backwards compatibility ensures long life and the maximum return on investment.

Control Panels

The MZX range of addressable panels provides a perfect fit for all sizes of system from a single panel and 125 devices to a network of 99 panels and up to 99000 devices. A simple yet powerful user interface is common to all panels, modular construction allows upgrades and extensions, and a range of repeater options provides for those occasions when small and discreet is key. Both surface and flush mount versions are available and a removable chassis plate facilitates an easy and safe installation. An operator training CD ROM is provided with every panel allowing on-going training for those who need to know.

Detectors

MZX sensors and multisensors integrate the best in sensor technology with powerful software that provides fire detection to suit all risks and all possible scenarios. The software allows the detection to be optimised to suit the building, its occupancy and therefore the risk. Changing detection modes, changing sensitivity and changing cause and effect are all features available under the day/night mode operator function key. Detection technologies include Carbon Monoxide, Smoke, Heat and Flame, some of which are combined in powerful algorithms to provide fast detection and reduce unwanted alarms, even in the harshest of environments. Two different ranges provide options with and without short circuit isolators and two way infra-red communications. A choice of ten standard colours is available and detectors can be fitted to a range of sounder/beacon bases.

Remote Service

All property protection systems should be connected to a remote monitoring centre, especially if they are not continuously occupied. Simple communicators are only 1 way & situations often require a key holder's attendance in order to investigate prior to an engineer being despatched. Remote connections can be made using the Internet whereby not only is the remote centre capable of receiving signals, but also has the ability to interrogate the system on the premises, gain access to & take short term remedial measures such as isolating a faulty device. The system monitors for both alarms & faults, is capable of detecting suppression systems that have discharged as well as monitoring & reporting other vital functions. The system also has the capability to use GPRS in the event of an internet failure.

Callpoints

The MCP range of call-points includes both indoor and outdoor models. Call points can be flush or surface mounted asa selection of back boxes and bezels are available. Anti-tamper devices are also available which fit around the unit making it less likely for persons to attempt malicious activations. The call point activation window can be a non-fragmenting element which breaks cleanly with no glass fragmentation, but needs replacing after use; or a deformable element which can be reset with a key and does not need replacing. All models have an integral alarm led. In addition to that, the range includes manual DIN call points for inside and outside use with integrated shortcircuit isolator.

Ancillaries

MZX Ancillary modules are an essential part of the addressable systems portfolio. These devices can monitor, control and interface equipment which is connected to but is not necessarily an integral part of the addressable system. Several contain an integral short circuit isolator which saves on additional and external isolators being fitted. Some units are powered from the addressable loop and require no external power, saving not only the power supply and battery but also the provision of a mains supply.

There are many modules providing multiple actions from a single device, saving time and the cost of installing many more single function units. Included in the range are devices to connect Gas Detectors, third party plant, including mains powered, dampers and fire doors, third party detection devices and mimic diagrams. Modules can be individually mounted, grouped in a single housing and onto din rail or inside third party equipment.

Software and Programming Tools

MZX addressable fire detection systems benefit from a suite of advanced software packages that simplify and speed up system design, installation, commissioning and service operations.

MZX Consys is a powerful programming tool designed especially for MZXTechnology systems. It allows the commisioning engineer to fully customise the MZX fire detection systems operation to meet the customers specific requirements whilst ensuring that EN54 functionality is maintained. MXDesigner is a system design tool tha provides a graphical user interface to simplifies the detailed design of MZX Technology systems MXFlow is a graphical engineering tool designed for displaying Tyco MZX database information in a Flow Chart format.

MZX Datalogger is a PC based service tool that enables device point values to be collected from MZX panels at regular intervals for in depth analysis.

MZXRemote is a software tool which allows an MZX panel to be interrogated and controlled from a remote location.

MZX Checker is a software commissioning tool that provides a graphical way of testing and debuging cause and effect programming.

Spare Parts

The life of the fire detection system may be an issue depending upon the age of the technology when the system is purchased. Some would be weary of new technology that has not had much previous history. Others may be concerned that older technology might be phased out in a year or two and replaced by a new version. With MZX technology there is no need for concern as spare parts are constantly available and in most cases even new technology devices can be installed into older systems without any reduction in functionality. This ensures the longest possible lifespan for a fire detection system and provides an extremely low cost of ownership when compared to some systems.

PROFILE Flexible Digital Addressable Panels

ZETTLER PROFILE Flexible is a powerful fire detection and alarm system that uses MZX Technology at its heart. The system is highly resilient to external factors such as electrical noise or sources of false alarm. The touchscreen user interface with context sensitive help has been ergonomically engineered so that every operation is made easy.

Features such as the touch sensitive LEDs that provide detailed status information ensure a fast response to all system events. The system combines ease of use with high performance, and through innovation brings lifetime cost benefits to end users. The optional, sleek and discreet stand alone touchscreen user interface makes the system suitable for the most critical and sensitive environments.

The screen of the PROFILE Flexible panel display is well-structured and has an easy-to-read appearance. In addition the home screen can be customised to adopt the end user's corporate identity.

The PROFILE Flexible panel provides an extensive 10,000 event log which can be selectively viewed or downloaded and then printed or analysed using dynamic filters. These effective event diagnostics help to quickly resolve site investigations.

The Info-Button provides context sensitive help and on-screen operator instructions. This guarantees fast and reliable assistance even for infrequent users.

Screen site maps allow easy access to any information such as floors or detectors. These can be site configured so will always carry the most up-to-date information. Having all this information saves time in the event of a fire and helps to speed up responses during fire fighting. Features such as the touch sensitive LEDs that provide detailed status information ensure a fast response to all system events. The system combines ease of use with high performance, and through innovation brings lifetime cost benefits to end users. The optional, sleek and discreet stand alone touchscreen user interface makes the system suitable for the most critical and sensitive environments.

Features

- 8.4" TFT colour touch screen multilingual user interface - Architecturally attractive and fully programmable
- Ergonomic icon display - simple to operate user interface eliminates operator errors
- Touch sensitive status LED's provide event summary data - Instant access to detailed event information
- Context sensitive help and on screen operator instructions - reduces the need for user training and provides support for infrequent users
- User configurable on screen site maps - no need for additional site plans
- Programmable graphic quiescent display - opportunity for customer branding
- Comprehensive point management and disable functions - gives the user full control and reduces service and maintenance effort
- Selectively view or print from the extensive 10,000 event log using dynamic filters – effective event diagnostics to quickly resolve site investigations
- Keyless log-on using RFID tags - identifies and logs user actions
- Black-Box versions with a minimum display provide economical network solutions
- Selective loop configurations and loop power options – allows economical and flexible system designs
- Optional cloud based communications using GPRS and TCP/IP – global secure management of the system
- Easy-mount frame permits one person installation – standard on modular housings
- Slot card arrangement for expansion for easier installation and service

All necessary information can be viewed in a clear and structured way. In the case of a system event, it helps to make the right decision quickly and efficiently.

Log in options include, password, key or RFID. An RFID card will give instant user control of the menus and also log the operator access.

Practicalities such as the layout of a building or the number of alarm devices will often dictate the useable size of a detection loop and can result in unused capacity. In order to optimise loop capacity, PROFILE Flexible offers a system design solution. Addressable loops can be connected as shared power (SP) loops or combined as high power (HP) loops. The system designer can allocate all available power and 250 addresses to a single HP loop, or share resources across two SP loops. This level of optimisation can significantly reduce total installed system cost.

Panels

	Description	Order Codes
	**Pro215S** PROFILE Flexible panel 2 shared power loops or 1 high power loop with maximum 250 addresses. TFT touchscreen display with 16 zonal LEDs. Compact housing 5 A PSU for 17 AH batteries. Networkable.	557.200.841
	**Pro215D** PROFILE Flexible panel 2 shared power loops or 1 high power loop with maximum 250 addresses. TFT touchscreen display with 16 zonal LEDs. Designer housing 5 A PSU for 38AH batteries. Networkable.	557.200.842
	**Pro885D** PROFILE Flexible panel 4 shared power loops or 2 high power loops expandable to 8 shared power or 4 high power loops with maximum 1000 addresses. TFT touchscreen display with 80 zonal LEDs. Designer housing 5 A PSU for 38 AH batteries. Networkable.	557.200.846
	**Pro815D** PROFILE Flexible panel 4 shared power loops or 2 high power loops expandable to 8 shared power or 4 high power loops with maximum 1000 addresses. TFT touchscreen display with 16 zonal LEDs. Designer housing 5 A PSU for 38 AH batteries. Networkable.	557.200.845

Modular Housing Panels

	Description	Order Codes
	**Pro16xD** PROFILE Flexible panel 4 SP Loops or 2 HP loops. Expandable to 16 SP loops or 8 HP loops with max 2000 addresses modular housing. Note: Zonal display sold separately.	557.200.847
	**Pro32xD** PROFILE Flexible panel 4 SP loops or 2 HP loop. Expandable to 32 SP loops or 16 HP loops max 4000 addresses. Modular Housing. **PxD** Extension box for Pro32xD PROFILE Flexible panel to enable a maximum number of 32 SPloops, 4000 addresses modular housing.	557.200.848 557.200.849
	**Pro16xBB** PROFILE Flexible Black Box panel 4 SP loops or 2 HP loops. Expandable to 16 SP loops or 8 HP loops max 2000 addresses. modular housing. **Pro32xBB** PROFILE flexible Black Box panel 4 SP loops or 2 HP loop. Expandable to 32 SP loops or 16 HP loops max 4000 addresses. Modular Housing.	557.200.850 557.200.851
	**PBB801** PROFILE battery Box with 5A PSU plain door and mounting frame **PXB800** PROFILE ancillary expansion Box plain door and mounting frame **PX-PZ** PROFILE expansion box for PZ4x or PZ8x zonal display **PX-PR** PROFILE expansion box complete with printer	557.202.854 557.202.853 557.202.863 557.202.864
	**PZ4x** PROFILE 40 way zonal display for use with PROFILE Flexible panels Pro16xD and Pro32xD. **PZ8x** PROFILE 80 way zonal display for use with PROFILE Flexible panels Pro16xD and Pro32xD.	557.202.857 557.202.858

Repeaters

	Description	Order Codes
	**PR8AS** PROFILE repeater panel with 80 zonal leds and AC power supply shallow housing.	557.200.560
	**PR1DS** PROFILE repeater compact TFT display 16 zone DC powered with shallow backbox.	557.200.801
	**RDS800** PROFILE repeater distribution switch **IMC-V111ET-TB** Industrial VDSL extended media converter with 1x100Base-TX to 1xEthernet extender, Terminal block socket **IMC-111FB-MM-SC** Mini Type 1x 10/100TX (RJ-45) to 1x 100FX (MM SC) with Link Fault Passthrough Media Converter **IMC-111FB-SS-SC** Mini Type 1x 10/100TX (RJ-45) to 1x 100FX (SM SC) with Link Fault Passthrough Media Converter	557.202.812 557.202.901 557.202.902 557.202.903

Accessories

	Description	Order Codes
	**PZ4DS** PROFILE 40 way zonal display shallow. Used on Pro215S, Pro215D and Pro885D	557.200.806
	**PZ8DS** PROFILE 80 way zonal display shallow. Used on Pro215S, Pro215D and Pro885D	557.200.811
	**P-WDP** PROFILE repeater back box deep	557.202.802
	**P-WSH** PROFILE repeater backbox shallow spare	557.202.801

	Description	Order Codes
	**Replacement Bezel** Replacement bezel for PROFILE user interface	557.202.818

Ancillaries

557.202.841	PFI800 PROFILE Field Interface Board 4 Shared Power or 2 High Power Loops
557.202.842	PLX800 Loop Expansion Slot Card 4 Shared Power or 2 High Power loops
557.202.844	PNI800 PROFILE Network Interface slot card
557.202.848	PCH800 PROFILE PSU interface and battery charger slot card
557.202.850	PSC800 PROFILE Backplane assembly with 6 slots for use with PxD a or as a spare part for Pro32xD/PxD or Pro32xBB
557.202.859	POS800 PROFILE Fiber optic switch single mode
557.202.862	POS800 PROFILE fiber optic switch multi mode
557.202.860	PCS800 PROFILE Ethernet switch
557.202.866	PROFILE PFI to TUD DCDC converter
557.202.821	Flush Bezel for P1 & P4 Panels
577.202.867	PLX800 Loop card label set
557.202.804	P-RCK PROFILE repeater 19 inch rack mount
557.202.813	PROFILE deep ancillary housing
557.202.814	PROFILE shallow ancillary housing
557.200.530.P	PROFILE 17AH expansion power supply
557.200.531.P	38AH Addressable expansion PSU - matches P115D housing
557.202.818	Replacement bezel for PROFILE user interface
557.202.819	PROFILE zonal display inserts. Set contains zonal inserts 1-80, 81-160,161-20, 1-40, 41-80, 81-120 and 3 x blank inserts.
557.202.820	PROFILE RFID Card Pack of 5
557.202.880	PROFILE language inserts Polish (Pack of ten)
557.202.881	PROFILE language inserts Czech (Pack of ten)
557.202.882	PROFILE language inserts Italian (Pack of ten)
557.202.883	PROFILE language inserts Spanish (Pack of ten)
557.202.884	PROFILE language inserts Russian (Pack of ten)
557.202.885	PROFILE language inserts Swedish (Pack of ten)
557.202.886	PROFILE language inserts Danish (Pack of ten)
557.202.887	PROFILE language inserts French (Pack of ten)
557.202.888	PROFILE language inserts Austrian (Pack of ten)
557.202.889	PROFILE language inserts Turkish (Pack of ten)
557.202.890	PROFILE language inserts Swiss (Pack of four pieces, two per language French-CH and Italian-CH)

MZX Addressable Detection Panels

MZX detection panels support Tyco MZX Technology:

- MZX VIRTUAL Multi-sensor detectors
- MZX DIGITAL high speed reliable digital protocol
- MZX FASTLOGIC fuzzy logic smoke detection algorithms
- MZX CCO universal carbon monoxide fire detection algorithms

MZX detection panels provide modular cost effective solutions:

- Networked panels from 1 to 792 detection loops
- Powerful central loop processing functions
- Powerful and modular user interface
- MXREMOTE diagnostics and service functions
- TXG graphical user interfaces
- MZX designer housing options

MZX detection panels provide long term fire detection solutions including upgrade paths from earlier panel models and a long term develop-ment strategy providing future upgrade paths.

MZX detection panels include:

- MZX for compact single loop solutions
- MINERVA MZX for EN54 approved systems

MZX detection panels include a powerful user interface:

- 640 Character display
- Displays first alarm and most recent alarm
- Permanently displays systems status including number of alarms, number of faults, number of isolated points
- Scroll function allows details of all events and status to be easily viewed
- Displays temperature, CO level and smoke level at point in alarm
- Displays 95 character custom messages for emergency procedures

MZX panels include advanced manager and engineer functions including:

- Menu driven
- Multi-level password protected
- Viewing 3000 event log
- Detailed fault reporting
- Isolate by point, zone or sector
- Viewing and printing status
- Viewing and printing isolated points
- Manual and automatic walk test and reporting functions
- Viewing and printing maintenance reports
- Extensive diagnostic functions including simulation and force outputs
- Text and configuration changes/Automatic battery test
- Detector service functions

MZX detection panels include very powerful event/action programming including:

- Seamless network wide event/action
- 240 x 240 Output map and output sequencing algorithms
- Over 3000 event/action groups for the most complex applications
- Templates for fast programming of standard applications
- User defined templates
- Time, date and special day programming
- Wide range of co-incidence, double knock and delay functions

MZX125 and MZX250 Series Addressable Panels

This range of digital addressable fire control panels uses the well established MZX Digital Loop protocol, detectors, i/o modules, user interface and software from the MZX range of panels. They provide a single box solution ideally suited for small and medium sized installations up to 240 zones.

The following models are available:
MZX125 Single Loop, 125 Addresses, 16 Zones
MZX250 Single Loop, 250 Addresses, 32 Zones
MZX251 Single Loop, 250 Addresses, 32 Zones
MZX252 Two Loop, 500 Addresses, 32 Zones
MZX253 2 to 4 Loop, up to 1000 addresses, 64 Zones
MZX254 2 to 4 Loop, up to 1000 addresses,240 Zones

The MZX125 housing has space for 2 x 12Ah batteries. The MZX250 housing has space for 2 x 17Ah batteries. The MZX251, 252, 253 and 254 housings have space for 2 x 38Ah batteries

Running the robust MZX Digital loop protocol the panels can operate using most cable types. This makes them ideal for upgrades as the existing cables can be utilised reducing installation time and cost.

All panels are complete with an integral PSU which will support a full compliment of loop powered sounders and beacons.

The MZX250, 251, 252, 253 and 254 control panels can be fitted with the TLI800EN network interface module, This enables up to 99 control panels to be seamlessly networked, or to be added to an existing network of MZX Fire controllers.

Repeaters

Four dedicated repeaters are available:
MZX16R 16 Zones with space for 7 Ah or 12Ah batteries
MZX32R 32 Zones with space for 17 Ah batteries
MZX64DR 64 Zones (Requires 24 VDC supply)
MZXDR 240 Zones (No Zonal Led's. Requires 24VDC)

These repeaters offer the user full panel functionality. Up to 7 repeaters can be attached to the control panel's 2 wire remote bus.

Features

- Supports one, two or 4 loops with 125, 250, 500 or 1000 addresses (panel dependant)
- 2 km loop length
- High level User Interface with "Front Panel Controls" to reduce lifetime cost of ownership
- Wide range of detectors including the 3oTec triple sensing detector providing early detection without false alarms.
- Wide range of ancillaries including door control
- DDA compliance using AVBase and loop powered sounder beacons.
- Approved to EN54

Order Codes

557.200.532	MZX125 1 loop 16 Zone Fire Controller
557.200.533	MZX250 1 loop 32 Zone Fire Controller
557.200.534	MZX251 1 loop 32 Zone Fire Controller
557.200.536	MZX252 2 loop 32 Zone Fire Controller
557.200.538	MZX253 2 to 4 loop 64 Zone Fire Controller (CPU801)
557.200.539	MZX254 2 to 4 loop 240 Zone Fire Controller (No Zonal LED'S)
557.202.073	2 Loop expansion kit for MZX253 (includes XLM loop card)
557.200.520	MZX16R 16 Zone Repeater (mains powered)
557.200.521	MZX32R 32 Zone Repeater (mains powered)
557.200.526	MZX64DR 64 Zone Repeater (24VDC powered)
557.200.523	MZXDR 240 Zone Repeater No Zonal Led's (24VDC powered)
557.201.502	Semi-Flush Bezel for MZX125/MZX16R
557.201.503	Accessory mounting plate for std modules, IOB800, LIM800 and TUD800 (MZX250/251/252/253/254 only)
557.201.519	Comms Interface mounting plate (MZX250/251/252/253/254 only)
557.201.510	Rack mount kit for MZX 125
557.201.511	Rack mount kit for MZX 250
557.201.512	Rack Mount Kit for MZX 251/252/253/254
557.201.307	MZX250 17Ah Battery Clamp
557.201.505	MZX251/ 252 38Ah Battery Clamp
557.201.520	MZX251/252/253/254 24Ah Battery Clamp

MZX Ancillary housings & PSUs

This range of housing & PSU's is designed to complement the MZX range of fire controllers, the housings are available in different sizes to match the MZX fire controller. Two ranges of ancillary housing are available; one is designed to accommodate various modules on the removable chassis plate and also has the option to mount a document holder on the rear of the door. The other ancillary housings, (aperture housings) are designed to accommodate one or two standard sized MZX control, display, printer or annunciator modules ie ANN880, COM820, PRN800 or similar, a chassis plate for mounting modules is also fitted. The housings with two apertures are supplied with one blanking plate.

Product Codes

557.202.625	ANC125-A	Ancillary Housing, One Aperture (Small - matches MZX125)
557.202.626	ANC250-A	Ancillary Housing, Two Aperture (Large – matches MZX250)
557.202.627	ANC251-A	Ancillary Housing, Two Aperture (Deep – matches MZX251/252/253/254)
557.202.622	ANC125	Ancillary Housing (Small - matches MZX125)
557.202.623	ANC250	Ancillary Housing (Large – matches MZX250)
557.202.624	ANC251	Ancillary Housing (Deep – matches MZX251/252/253/254)
557.201.513		Document Holder attachment (used with ANC125/250/251)
557.201.518		M520 Anc Fitting Kit – req'd for older M520 modules, fittings for 4 modules

Power Supply Units

The power supplies utilise switch mode PSU's as used in the MZX range of panels, if monitoring of these PSU's is required a monitoring kit is available which includes a MIM800, mounting bracket and cables.

557.200.530	PSU A17	17Ahr 5A Addressable expansion PSU - matches MZX250
557.200.531	PSU A38	38Ahr 5A Addressable expansion PSU - matches MZX251/252/253/254
557.201.516		PSU monitor kit (includes MIM800)

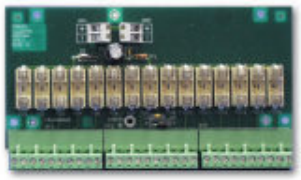
Remote Mimics

The 80-Way Mimic allows custom-made display and presentation panels to be incorporated into an MZX network. The single PCB can be mounted in an expansion box or on the rear of a free-standing panel and can be used to drive up to 80 zonal LED indicators, arranged in any configuration, together with two FIRE LEDs, one FAULT LED and one ISOLATE LED. The indicators operate in the same manner as the corresponding indicators on the panel. A remote mimic can also be connected to an MPM800 configured as a remote mimic driver. Up to 15 MPM800's can be connected on to the remote bus, each with a unique address. The Mimic includes audible and visible warning facilities.

Order Code

557.180.005 80 way mimic driver module

FB800 Fuse Board

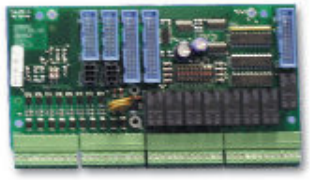


The FB800 fuse board provides terminations for 15 fused 24Vdc output spurs from a single 24V d.c. input. The FB800 is designed to be normally mounted on the PSU830 power supply. The fuses are rated at 500mA.

Order Code

557.202.100 FB800 Fuse board (15 way)

IOB Input/Output Expansion Board



The IOB800 is an LPCB approved board providing panel I/O expansion of 8 opto-isolated digital inputs and 8 x 24V d.c. relay outputs. The IOB800 also incorporates a connector which provides decoded signals for the 8 inputs and 8 outputs for specialist interfacing.

Expansion to the following panel components is possible:

- FIM801/802 field interface modules (maximum 24 I/O 8IN/16OUT)
- OCM800 operator control modules (maximum 80 I/O)
- MPM800 multi-purpose interface (maximum 80 I/O)

Order Code

557.202.006 IOB800 Expansion Board and cables

The IOB800 can be mounted in the top of a battery box or repeater. The device has two expansion bus connectors which allow them to be daisy chained together.

XIOM Input/Output Expansion Board

The XIOM is a 16 universal input/output expansion board. The I/O on the XIOM can be set in banks of 8 to operate as follows:

- LED driver outputs (10mA source)
- Relay Driver Outputs (100mA sink)
- Voltage Monitor Input (8 - 30Vdc Normal)
- Volt Free Contact inputs

Features

- 16 I/P's or 16 O/P's or 8 I/P + 8 O/P
- 5 per MPM800 (80 I/O points)
- Fully configurable in MZX Consys

Order Code

557.180.016	XIOM MINERVA Input/Output Expansion Module (16 Way)

Desktop Printer

The printer is designed as a low cost business printer ideally suited for mounting adjacent to the fire control panel.The LQ-350 combines high performance with paper handling flexibility and quiet operation.

Order Code

557.180.244	Epson LQ-350 printer
557.180.220	LQ 300+ Printer Ribbon (spare)
557.202.117	MZX FIM/MPM to serial printer lead

PRN800 Printer Kit

The PRN800 Printer Kit is designed for use with the designer range of MZX Controllers . It is fitted to the front cover of the MZX battery housing and is powered from the PSU830 power supply via an FB800 fuseboard in the MZX Controller housing. The PRN800 supports the Western European Language Code Page 850 which includes Danish, Dutch, English, French, German, Italian, Norwegian, Portuguese, Spanish and Swedish.

Key Features:

- Thermal printer mechanism ensures high reliability
- Quiet Operation
- Lightweight and Compact Design
- High Speed Printing: 40 mm per second.
- High quality printing: 384 dots.

Order Code

557.202.024	PRN 800 Printer c/w front cover module
557.301.014	Spare Paper Roll (pk of 5)

850 and 830 Series Fire Detectors - Generation 6 IEC 61508 Approved (SIL2)

The 850 and 830 series of fire detectors are designed to be both adaptable and flexible which means they can be used in most premises to protect against a wide range of potential fire risks. They use sophisticated digital signalling to communicate with the MZX Technology fire control panel, sending fire data from each sensing element for analysis. Because all of the sensed data is sent to the controller, powerful algorithms can be used to determine whether a fire condition is real or not. The sensitivity, mode and degree of verification can be altered by the user in response to environmental or activity changes.

A built-in line isolator incorporated into the 850 series devices means that when a single short circuit fault occurs on a loop, all the detectors will continue to operate. An on-board amber LED will give a local indication that the line isolator has operated. The 830 series detectors can be used with an isolator base to provide protection against short circuit faults.

Two way infrared communications allows the detector to work with the 850EMT Engineering Management Tool to speed up commissioning and service routines and to provide status / reports data without the need to physically access the device. Extended drift compensation reduces the lifetime cost of ownership by typically doubling the service life of the detector whilst a new insect screen and surface coating of electronics results in a robust industrial design. Both 850 series and 830 series detectors are environmentally friendly. They do not use any radioactive parts and can be returned for recycling at the end of their life.

Features

- Advanced multi-sensor designs
- Choice of heat, optical, optical and heat multi-sensor or 3oTec triple multi-sensor
- FASTLOGIC expert algorithms
- Up to 250 detectors per loop
- Built-in line isolator on 850 series
- Advanced commissioning features using the 850EMT Engineering Management Tool
- Two way infra-red communication to the 850EMT Engineering Management Tool
- Protective optical chamber screen
- Robust coated electronics
- Extended service life
- Fire, isolate and fault LED indications
- Green Passport Certified

The detectors are constructed from hardwearing flame retardant FR3010 'BAYBLEND' plastic. They are supplied with dust covers as part of the packaging which essentially prevents contamination entering the detection chambers during installation, after which they are removed.

850PH, 851PH and 830PH Photo Heat Multi-Sensor Detectors

With its ability to detect a wide range of fires from flaming to smouldering types, the combined optical and heat multi-sensor detector is the preferred choice for a range of applications including light industrial, retail and office environments.

It operates in a number of approved modes and sensitivities that can be dynamically selected to suit different environmental conditions.

Order Codes

516.850.051	850PH Photo Heat Detector with built in line isolator
516.830.051	830PH Photo Heat Detector

850P and 830P Photo Detectors

More benign environments where any potential fire will be slow burning can be protected using the optical detector. A choice of sensitivities and modes gives this detector a broad range of applications.

Order Codes

516.850.052	850P Photo Detector with built in line isolator
516.830.052	830P Photo Detector

850H and 830H Heat Detectors

Complimenting the range is the heat sensor which can operate in fixed temperature and rate-of-rise modes with a number of approved sensitivities. It is most often used in areas where high levels of dust are present or where the environment precludes the use of smoke detectors.

Order Codes

516.850.053	850H Heat Detector with built in line isolator
516.830.053	830H Heat Detector

850PC and 830PC 3*o*Tec Triple Sensor Detectors

For life protection and when the environmental conditions are challenging, the 850PC/830PC 3oTec detector provides the ultimate in detector performance and false alarm rejection. It is a multi sensor that uses optical, heat and carbon monoxide sensors in concert to accurately determine the presence of fire.

Applications include industrial, retail, transport hubs, and healthcare. Its false alarm rejection properties make it the ideal choice for hotel bedrooms where steam from bathrooms is a common source of false alarms.

Order Codes

516.850.054	850PC 3oTec Triple Sensor Detector with built in line isolator
516.830.054	830PC 3oTec Triple Sensor Detector

800F Flame Detectors

The 800F is a digital addressable, low cost infrared flame detector with some high end features such as 'Solar Blind' operation for false alarm free reliability and an automatic health check feature. They will detect a 0.1m2 flaming fire at a range of 20m. Uses the standard MZX detector bases and MZX base accessories. An Intrinsically safe version is available as part of the System 800 I.S. range.

Order Code

516.800.006	801F LPCB

800 Series MZX Address Flag

The 800 Series detectors incorporate a feature, which automatically transfers the address flag to the detector base, when the detector is plugged into the base. On removal of the detector the address flag remains on the ceiling, thus ensuring that detectors are not accidentally returned to the wrong detector base following service routines.

Most MZX detection panels incorporate additional fail safe software features to ensure that incorrect detector positioning does not compromise the system. Address flags are supplied in packs of 100. Labels are provided on sheets of 250 in eight colours to enable quick identification between different loops.

Order Codes

516.800.915	MZX Address flags (pack of 100)
516.800.931	Address flag labels Loop A - White
516.800.932	Address flag labels Loop B - Yellow
516.800.933	Address flag labels Loop C - Purple
516.800.934	Address flag labels Loop D - Green
516.800.935	Address flag labels Loop E - Grey
516.800.936	Address flag labels Loop F - Blue
516.800.937	Address flag labels Loop G - Orange
516.800.938	Address flag labels Loop H - Red

Standard Detector Bases
4B-C 4" Continuity Base

The new 4B-C 4" continuity base is designed to snap-fit to the ceiling tile adaptor or it can screw fix to a ceiling in the traditional manner. The 4B-C 4" continuity base is designed specifically for use with the 850 series detector and provides a switching mechanism that ensures continuity when the detector (and built-in short circuit isolator) is removed. When used with the time saver ceiling tile adaptor, the 4B-C 4" continuity base uses a snap-fit mechanism that saves installation time.

Features

- For use with the 850 series detectors
- Compact rigid design that improves the appearance and is easy to install
- Built-in continuity switch that closes on detector removal
- Electronics free, permits in circuit testing
- Snap fit to the time saver ceiling tile adaptor
- Detector locking pin included
- Detector park position for service and commissioning, holds the detector mechanically in place whilst disconnected from the loop and continuity switch is closed
- Choice of 8 mini-trunking break-outs

Order Code

517.050.042 4B-C 4" Continuity Base

4B 4" Detector Base

The new 4B 4" detector base is designed to snap-fit to the ceiling tile adaptor or it can be screw fixed to a ceiling in the traditional manner.

Features

- Compatible with 830 series detectors
- Drives a remote indicator
- Detector locking pin provided with every base
- Snap fits to the Time Saver Ceiling Tile Adaptor
- Fits directly to a British or European electrical back box
- Temporary park position
- Break-outs for surface mount

Order Code

517.050.041 4B 4" Detector Base

4B-I 4" Isolator Base

The new 4B-I 4" Isolator base is designed to snap-fit to the ceiling tile adaptor or it can screw fix to a ceiling in the traditional manner. The 4B-I 4" base is designed specifically for use with the 830 series detectors and provides protection against short circuit faults on the MZX digital addressable loop.

Features

- For use with the 830 series detectors
- Compact rigid design that improves the appearance and is easy to install
- Up to 250 x 4B-I 4" isolators can be connected on each loop
- Snap fit to the time saver ceiling tile adaptor
- Detector locking pin included
- Detector park position for service and commissioning, holds the detector mechanically in place whilst disconnected from the loop
- Choice of 8 mini-trunking break-outs

Order Code

517.050.043	4B-I 4" Isolator Base

Ceiling Tile Adapter

The Time Saver Ceiling Tile Adaptor is used with the 4" snap fit base and consists of three parts, a bezel and clamp that are fitted to the ceiling tile and a back-box that carries the detector and base assembly. It is available as a complete unit or alternatively, the back-box can be ordered separately, as can the bezel and clamp assembly. Ordering the parts separately may be preferred if there is an extended period before the false ceiling is installed e.g. "shell and core" projects. Requires a 127mm diameter hole. The CTA adaptor plate allows the Time Saver Ceiling Tile Adaptor to be used with other devices such as the AV Base, 802SB or Mini Firecryer.

Features

- Cuts installation time by 30%
- Commission the system before the suspended ceiling is installed
- Suitable for ceiling tiles from 1mm to 30mm thick
- Made from flame retardant material
- No additional back-box is required
- Time saver is designed for use with a new snap-fit 4" detector base
- Adaptor available for use with the AV base & other devices

Order Codes

517.050.060	Ceiling Tile Adaptor Kit consists of 1 x 517.050.056 and 1 x 517.050.057
517.050.056	CTA-BB CTA Back Box
517.050.057	CTA-BC CTA Bezel and Clamp
517.050.058	CTA-AP CTA Adaptor Plate

4B-6A 4" to 6" Adaptor

Features

- Adapts 6" electrical boxes to fit the 4B-C 4" continuity base
- Architectural trim for neat appearance
- Concealed fixings
- Use to conceal marks left by old detectors when replaced by MZX Technology

The 4B-6A 4" to 6" Adaptor is designed for use with U.S. style 6" electrical back boxes and provides a flush architectural trim between the electrical box and the 4B-C 4" continuity base. It can also be fixed directly to a ceiling and used to conceal marks left when older, large diameter detectors are replaced with MZX Technology.

Order Code

517.050.054	4B-6A 4" to 6" Base Adaptor

Functional Detector Bases
Tyco MKII Sounder Base

Features

- Manufactured to EN54 part 3
- Integral sounder and detector base
- Volume and tone adjustable after installation
- Low Power Synchronisation
- Do not require use of a standard base (maybe installed directly onto a standard besa box)

A new low current range of sounder bases for use with Conventional and Addressable Fire Alarm Control Panels.

Order Codes

516.800.911	901SB Universal Sounder Base
516.800.910	802SB MZX Loop Powered Sounder Base
516.800.913	812SB MZX Loop Powered UL Sounder Base
517.050.022	Volume Pot Spare Cover (1 sheet of 144)
517.050.005	4" Detector Base Locking Pin Kit (PK100)

801RIL - Remote Indication LED

All detector bases have the ability to drive a remote LED in the event that the installed position of the detector is not easily visible. The 801RIL is primarily designed for LPCB influenced markets but is compatible with all 800 Series detectors.

Features

- UK Single gang mounting
- High intensity red LED

Order Code

516.800.908 801RIL remote indication LED

801HL - Remote Indication Lamp

The 801HL remote indicator lamp provides a larger indicator for use in place of the RIL when longer distances are involved or in VdS influenced markets. Typically used to indicate the source of an alarm in buildings with long corridors eg. Hotels, hospitals, apartments.

Order Code

516.800.909 801HL indication lamp

4B-EM 4" Euro Mount

The euro-mounting base provides a matching back box, which allows the 4" bases to be ceiling mounted with conduit entries for standard 18 and 21mm conduit.

Features

- 2 x 18 mm conduit entries
- 2 x 21 mm conduit entries
- Fits all 4" Bases
- Accepts up to 8 accessory terminals

Order Codes

517.050.052 4B-EM 4" Euro Mount
517.050.612 Base Accessory terminal kit (pack of 10)

4B-DHM Deck Head Mounting

For humid and environmentally challenging applications such as marine or offshore installations, the 4B-DHM deck head mount provides a sealed waterproof mounting which protects the electrical connections in the base. It can be screwed, bolted or welded to the deckhead. Supplied with 1 terminal. If more are required, use the optional base accessory terminal kit.

Features

- 4 x 20 mm gland entries
- Fits ALL 4" bases
- IP55 with supplied gasket

Order Codes

517.050.051	4B-DHM Deckhead Mount
517.050.612	Base accessory terminal kit (pack of 10)

Protective Detector Cage

Robust steel protective cage for Series 800 detector ranges using the 5" bases. Ideal for schools and sporthalls or whenever detectors need protection.

Strong coated steel construction with 4 point fitting.

Order Code

517.050.614	CW-5B Detector Cage

Protective Detector Sounder Base Cage

White powder coated steel protective cage for Series 800 Detectors fitted with a sounder base. Internal dimensions: 120mm dia x 80mm deep.

Order Code

517.050.011	Steel Protective Detector Cage

DPK6 Duct Probe

Features

- DPK6 for use with Generation6 multi-sensor detectors 850PH and 830PH with built-in 4B-C
- 4" Continuity Base
- Designed to comply with prEN 54-27
- One-pipe air sampling system
- Patented venturi pipe and duct housing
- Test hole on cover
- Simple installation
- Simple service and maintenance

The DPK6 duct probe units have been developed to detect smoke in ventilation ducts. They offer significant benefits in terms of performance and installation. The system comprises a single duct probe tube and housing specially designed for optimum airflow through the smoke detector and suitable for use in incoming, outgoing and circulation air ducts of ventilation and conditioning systems. The duct probes can operate across a wide range of airflow speeds and are designed to comply with prEN 54-27and VdS.

Unlike more traditional duct probe units that employ an inlet and exhaust tube with sampling holes, the DPK6 unit uses a highly efficient single sampling tube that is slotted along its length. This allows the sampling tubes to be cut to the desired length whilst maintaining maximum efficiency.

In order to reduce the time required to test the duct probe detector during routine maintenance, an aperture is provided that allows aerosol test gas to be directed at the detector without having to dismantle the unit.

Accessories

Tyco Fire Protection Products offers 3 lengths of the duct probe tubes. The tube is made of aluminium and can easily be shortened to suit the span of the air duct. Where the unit is mounted on insulated or circular air ducts, the DPK6-MB mounting bracket is required.

Order Codes

517.025.056	DPK6 Duct Probe with 4B-C 4" Continuity Base
517.025.058	DPK6-60 - Duct Probe Tube 60 cm
517.025.059	DPK6-150 - Duct Probe Tube 150 cm
517.025.060	DPK6-280 - Duct Probe Tube 280 cm
517.025.061	DPK6-MB - Duct Pobe Mounting bracket
517.025.055	DPKF - Filter

APM800 Addressable Power Supply Monitor

The APM800 is an MZX addressable power supply monitoring module which is usually used with the PSM800/820/821 power supply module to make an addressable power supply. The APM800 is designed to fix to studs on the top of the PSM800/820/821 The APM800 monitors the PSM800/820/821 for mains failure, earth fault, battery charger fault and battery fault. It can reset the PSM800/820/821 resettable 24 Vdc output and initiate a battery test which then reports battery voltage and current to the controller.

Order Code

557.202.027	APM800 addressable power supply monitor

BDM800 Beam Detector Module - Loop Powered

The BDM800 is designed to interface the FIRERAY reflective beam detectors to the MZX Digital Addressable Loop. The BDM800 provides power from the loop, monitors the Fire and Fault outputs of the detector and also monitors inter-connections for open and short circuit faults. Supplied fitted in a standard double gang ancillary housing, the BDM800 greatly simplifies the wiring normally associated with beam detection.

The considerable cost of providing local power supplies that is eliminated.

Features

- Power beam detectors directly from the MZX loop
- Reduced wiring and installation costs
- Monitors beam detector for fire and fault
- Monitored for open / short circuit faults
- LPCB and VdS approved (pending)
- On board LED indicates polling and active
- Use with reflective beams FIRERAY 50R or 100R for greater savings on installation
- Compatible with FIRERAY 2000 + FIRERAY 5000
- Optional BTM800 beam terminal termination module

Order Code

555.800.066	BDM800 Beam Detector Module c/w Cover

BTM Beam Termination Module

If it is necessary to site the BDM800 Beam Detector Module some distance from the beam detector itself, an optional BTM800 beam termination module is available to minimise and simplify the wiring. The BTM800 is housed in a standard double gang ancillary cover and has all the connections and components required to minimise installation time.

Features

- Simplifies the wiring between the Beam detector and BDM800
- Allows BDM800 to be sited up to 40m from the beam detector

Order Code

555.800.067	BTM800 Beam Terminal Module c/w Cover

CIM800 Contact Input Module

The CIM800 is a flexible addressable input-monitoring device that fits in the standard ancillary housings. The CIM800 provides two inputs to current MZX panels though this can be implemented as two separately wired spurs (Style B) or as a loop (Style A). Both spur and loop input wiring can be configured to monitor normally open or normally closed inputs. In addition both can be configured to initiate an alarm or short circuit fault message in the event of a short circuit on normally open monitoring circuits.

Order Codes

555.800.002	CIM800 Contact input monitor
555.800.032	CIM800 Module c/w Front Cover

DDM800 Universal Fire and Gas Module

The DDM800 provides the ability to connect and interface 2 zones of conventional 2 wire fire detectors or two 4-20mA sensors to the MZX Fire alarm controllers.

When used to interface conventional detection devices, Open & Short circuit and device removal monitoring is provided. Intrinsically safe (IS) detection is supported when used with a galvanic isolator An integral line isolator is incorporated in the module. Loop powered or 24vdc operation.

The 4-20mA interface can be used to monitor devices such as gas detectors, temperature alarms or any 4-20mA interfaced device.

The DDM800 is compatible with MZX Consys version 15 or later.

Order Codes

577.800.006	DDM800 Universal Fire and Gas Module
577.800.036	DDM800 Universal Fire and Gas Module c/w front cover
577.800.056	DDM800 Universal Fire and Gas Module housed in IP55 D800 Enclosure
557.800.057	DDM800 Detector Removal End of Line Resistor (pack of 10)

DIM800 Detector Input Module

The DIM800 is designed to power and monitor a circuit of low voltage conventional detectors and callpoints. The detection circuit is powered from an external 24V d.c. supply and is reset by the MZX panel. The DIM800 monitors the external 24Vdc and provides a fault signal if it is lost. The input detection circuit can be wired as one or two spur circuits (Class B), one loop configured circuit (Class A) or one 4 wire detection circuit. The module is designed to be compatible with most conventional detection products. Compatibility has been tested to date on the following products: M300 Series, M601 Series, S100 Series, H Series, S231F, S231F+ & CP200.

Order Codes

555.800.012	DIM800 Detector input monitor
555.800.042	DIM800 Module c/w front cover

HVR800 High Voltage Relay Module

The HVR800 module is a non-addressable device which allows a low current mains rated relay to switch up to 10A. Alternatively a low voltage drive signal such as that provided by the RIM800 or 80 way mimic can be used to switch the integral mains relay via the opto-isolated input.

Order Codes

568.800.004	HVR800 high voltage relay
568.800.034	HVR800 in isolated D800 housing

LIM800 Line Isolator Module

The LIM800 Ancillary Line Isolator Module is designed to be used on all MZX addressable loops. It monitors the line condition and upon detection of a short circuit isolates the affected section whilst allowing the rest of the addressable loop to function normally. The LIM800 ensures that on a looped addressable system a short circuit fault cannot disable more detection devices than would be lost on a conventional non-addressable system.

Order Codes

545.800.004	LIM800 Ancillary Line Isolator Module
545.800.033	LIM800 Ancillary Line Isolator Module c/w front cover

LPS800 Loop Powered Sounder Module

The LPS800 provides a single monitored sounder output circuit with up to 75 mA of power sourced from the MZX panel.

NOTE: Each MZX Digital Loop can provide up to 495mA for loop powered sounders and modules.

Order Codes

577.800.011	LPS800 Loop Powered Sounder module
577.800.041	LPS800 Module c/w front cover

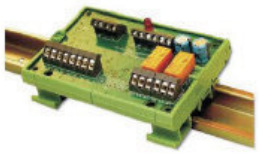
MIM800 Mini-Input Module

The MIM800 is a small MZX addressable module designed for monitoring a single input circuit. The MIM800 can monitor normally open or normally closed inputs and provides open and short circuit monitoring of the line. The MIM800 is designed for fitting in small devices such as flow switches, special detection devices and explosion proof callpoints. A variant of the MIM800 is used in all callpoints and pullstations.

Order Code

555.800.001	MIM800 mini-input module

MIO800 Multi-Input Output Module



The MIO800 is a general purpose interface module. It allows multiple input and output connections to be made between external equipment and the MZX Digital loop. Three inputs and four outputs are provided. Each input and output can be programmed independently using the MZX Consys configuration tool to provide customised functionality.

An IP55 rated D800 style housing is used as the standard enclosure with the option of a DIN-rail mounting kit for in-cabinet installations.

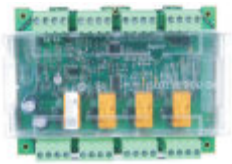
Features

- Normally open or normally closed inputs
- Inputs monitored for open or short circuit faults.
- STYLE B (short circuit gives an alarm) or STYLE C (short circuit gives a fault) selectable for inputs
- Provides four digital outputs
- All four outputs can drive a HVR800 module
- Two outputs have both volt free change over contacts and HVR Drivers

Order Codes

555.800.065	Multi I/O Module
557.201.401	D800 Ancillary Housing
557.201.303	Din Rail Mounting Kit

Quad Input/Output Module (QIO850)



The Quad Input/Output Module connects directly to the MZX Digital loop and provides four change over relay outputs, four High Voltage Relay (HVR) outputs and four monitored inputs. It is loop powered and therefore does not need a power supply *, however it can monitor the presence of a local 24Vdc or 48Vdc power supply.

Order Code

555.800.071	Quad Input/Output Module (QIO850)

* A 24Vdc power supply will be required if the module is controlling HVR's switching 240Vac.

Features

- Four change over relay outputs and four monitored inputs each individually programmable for a wide range of applications
- Four HVR drivers *
- Inputs can monitor normally open or normally closed contacts
- The relay contacts are monitored and users are alerted to "output stuck" conditions
- Uses 2 addresses when configured for 2 inputs with 2 associated outputs
- Uses 4 addresses when configured for 4 inputs with 4 associated outputs
- Uses 8 addresses when configured for 4 inputs and 4 independent outputs
- Compact DIN rail mount design saves space
- Lower installation costs than individual modules
- Built-in line isolators improve fault tolerance
- Status LED's provide rapid diagnostics
- Two way IR communication to the 850EMT programming tool speeds up commissioning
- Monitors input power supply for improved system integrity
- VdS and CPD approved to EN54-17, EN54-18 and EN54-13

Quad Monitored Output Module (QMO850)

The Quad Monitored Output Module connects directly to the MZX Digital loop and requires a 24Vdc or 48Vdc power supply. It provides four monitored outputs for connection to conventional sounder circuits or auxiliary relays.

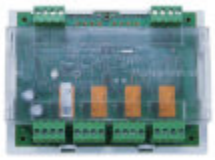
Order Code

555.800.070 Quad Monitored Output Module (QMO850)

Features

- Four polarity reversal monitored outputs
- Class A or Class B wiring for versatility
- Uses 2 addresses when configured for 2 outputs
- Uses 4 addresses when configured for 4 outputs
- Compact DIN rail mount design saves space
- Lower installation costs than individual modules
- Built-in line isolators improve fault tolerance
- Status LED's provide rapid diagnostics
- Two way IR communication to the 850EMT programming tool speeds up commissioning
- Monitors input power supply for improved system integrity
- VdS and CPD approved to EN54-17, EN54-18 and EN54-13

Quad Relay Output Module (QRM850)



The Quad Relay Output Module connects directly to the MZX Digital loop and provides four change over relay outputs or four High Voltage Relay (HVR) outputs. It is loop powered and therefore does not need a power supply *, however it can monitor the presence of a local 24Vdc or 48Vdc power supply.

Order Codes

555.800.073 Quad Relay Output Module (QRM850)

* A 24Vdc power supply will be required if the module is controlling HVR's switching 240Vac.

Features

- Four change over relay outputs each individually programmable for a wide range of applications
- Four HVR drivers *
- The relay contacts are monitored and users are alerted to "output stuck" conditions
- Uses 2 addresses when configured for 2 outputs
- Uses 4 addresses when configured for 4 outputs
- Compact DIN rail mount design saves space
- Lower installation costs than individual modules
- Built-in line isolators improve fault tolerance
- Status LED's provide rapid diagnostics
- Two way IR communication to the 850EMT programming tool speeds up commissioning
- Monitors input power supply for improved system integrity
- VdS and CPD approved to EN54-17, EN54-18 and EN54-13

IP66 Housing for Quad I/O Modules

A polystyrene/polycarbonate IP66 rated housing prefitted with a din rail for mounting either 1 x Quad Input/Output Module (QIO850), or 1 x Quad Monitored Output Module (QMO850) or 1 x Quad Relay Output Module (QRM850) complete with a transparent front cover.

Features

- Ingress Protection rating of IP66
- Polystyrene/polycarbonate construction hence will not corrode
- Supplied prefitted with a din rail to enable the Quad Modules to snap fit into the housing
- Transparent front cover allows the status LEDS of the Quad Module to be viewed without removing the cover and also allows two way IR communication with the 850EMT programming tool
- Supplied with M20/M25/M32/M40 cable entry knockouts

Order Code

557.201.410	IP66 Housing for Quad I/O Modules

RIM800 Relay Interface Module

The RIM800 provides a single programmable relay output from the MZX DIGITAL addressable loop which can be programmed for a variety of applications including signalling fire conditions to plant, machinery, fire doors, dampers & security systems. The RIM800 relay coil is monitored. The RIM800 relay contact is rated for 2A @ 24V d.c. but can be used to switch mains voltage when used with the HVR800. This unit has two opto-isolated terminals specifically for driving the HVR800.

Order Codes

568.800.003	RIM800 relay interface module
568.800.033	RIM800 Module C/W Front Cover

SB520 Sounder Booster Module

The SB520 sounder booster module enables the SNM800 to drive circuits with higher currents whilst maintaining the reverse polarity integrity line monitoring.

Order Codes

577.001.023	SB520 Sounder Booster Module
577.001.033	SB520 Module c/w Front Cover

SIO800 Single Input/Output Module

The SIO800 Single Input/Output Module is designed to provide a monitored input and a volt free relay changeover output. It consists of an input for monitoring the status of a normally open contact and a single changeover relay contact. The relay is controlled by a command sent from the MZX Fire Controller via the addressable loop.

The state of the relay (activated,deactivated or stuck) is reported to the MZX Fire Controller. The LED may be turned ON or OFF by the controller during a relay activated condition.

Order Codes

555.800.063	SIO800 Single Input/Output Module
555.800.064	SIO800 Single Input/Output Module c/w Front Cover

SNM800 Sounder Notification Module

The SNM800 is a remote addressable sounder circuit output device capable of switching sounder and speaker circuits up to 2A @ 24V d.c. or provide a monitoredoutput facility for other applications. These can be used in addition to the two circuits provided as standard on most MZX detection panels. The SNM800 can support sounder circuits wired as a spur (Class B – Style Y) or in a loop configuration (Class A – Style Z).

Order Codes

577.800.005	SNM800 sounder notification module
577.800.035	SNM800 Module c/w Front cover

TM520 Timer Module

The TM520 provides two outputs that can be activated based on a delay time. If the key-switch on the module is activated or a predefined event within the control panel occurs, then a timed delay (Between 10 mins and 2 hours 10 mins) is started. When the delay reaches zero the TM520 outputs are activated. The unit sounds an internal buzzer and illuminates a red LED when the outputs are active and illuminates a yellow LED when the timer is counting down. The red LED and the buzzer will pulse 5 minutes before the end of the delay .

Order Code

557.180.423 TM520 Timer module - non addressable

The TM520 requires a separate 24V DC supply to operate. The module is not addressable and will therefore not take an address on the loop.

TSM800 Door Control Module

The TSM800 is used to control fire doors in accordance with BS7273 Part 4. When activated, either by a fire signal or by a fault or isolation within the fire door zone, the TSM800 will interrupt the supply to the door holders and the doors under control of the module will close. The module has the provision to monitor a contact to report to the fire controller if the door fails to close. The module also includes a built-in line isolator. his module requires MZX Consys 10 or later to function.

Order Code

555.800.069 TSM800 Door Control Module PCB

VIO800 MZX Vesda Interface

The VIO800 MZX Vesda Interface will enable all versions of the popular LaserPLUS Detectors and 7 relay versions of the Laser SCANNER Detectors to be interfaced directly to the MZX Digital detection loops. 3 configurable inputs and 1 output signal are available from the interface enabling it to integrate fully with the Vesda detector.

This module is designed to fit in bay one of the Vesda Detectors.

Order Code

516.018.014 VIO800 MZX VESDA Interface

MZX Compatible 4 Amp 24 VDC Addressable PSU

Features

- Connects directly to the MZX Digital Loop
- Reduced installation time and cost since no external module is required
- Easier Programming and Commissioning – predefined in MZX Consys
- EN60950:2000 Compliant PSU
- EN50130-4:1996 & EN50081-1:1992 Compliant PSU
- Mains and Fault LED Indicator on front cover
- Output fuse protected
- 24VDC Voltage Door Release Relay
- Specifically designed for the safe actuation of release mechanisms for doors
- Satisfies the requirements of BS7273 Part 4 for category A actuation of Fire Doors
- Built in line isolator
- Self monitoring operation
- Approved to EN54-18 (Input/Output Devices) and EN54-17 (Line Isolators)

The MZX compatible ELM24TSM 4 Amp 24VDC Addressable Door Control & Power Supply Unit, is designed to provide monitoring and activation in compliance with the most stringent local door control standards.

This Door Holder PSU is interfaced to the MZX Panels via an integral TSM800 Door Control Module which is field mounted inside the Door Holder PSU and connects to the MZX Detector Loop.

Order Code

558.004.011	ELM24TSM 4 Amp 24VDC Addressable Door Holder PSU

MZX Ancillary Housings

A variety of ancillary housings are available to fit the 800 Series MZX ancillaries. The standard sized modules are mechanically compatible with all options. LPCB approvals are with the M520 double gang cover plate or ancillary housings. The M520 double gang cover provides external access for the MZX SERVICE TOOL to plug into the ancillary module which is mounted in the cover. All options allow the ancillary to be programmed and tested when the cover is removed.

M520 Ancillary Cover

Order Code

517.035.007 M520 Ancillary Cover

M520 Ancillary cover for use with 800 series modules. Will fit onto a MK style double gang back box.

D800 IP55 Ancillary Housing

Order Code

557.201.401 D800 IP55 Ancillary Housing

D800 IP55 ancillary housing (140W x 120H x 70D mm) incorporates a window to view the module LED.

ANC-3 Ancillary Housing

Order Code

557.180.097.A ADT Branded

ANC-3 ancillary housing - for use with M800 ancillary modules (can accommodate up to 3 M800 modules). Dimensions 340W x 290H x 90D mm.

ANC-8 Ancillary Housing

Order Codes

557.180.096.A ADT Branded
557.180.095 STK8 stacking kit

ANC-8 ancillary housing for use with M800 ancillary modules, houses 8 modules, expandable to 16 using the STK8 stacking kit.. Dimensions 440W x 320H x 140D mm

DIN Rail Mounting Bracket

DIN Rail mounting bracket enables any module which can be mounted to a M520 ancillary cover to be DIN rail mounted using this bracket.

Clip-on PCB mounting pillars are included. Will fit standard 35mm DIN Rail bracket.

Order Code

547.004.002	DIN rail mounting bracket

QFB/2 Dry Lining Flush Mount Backbox

QFB/2 Dry lining flush mount (for plasterboard etc) MK backbox for use with 800 Series addressable ancillaries using 517.035.007 cover.

Order Code

517.035.015	QFB/2 Dry Lining Flush Mount MK backbox

K2214 ALM Metal Surface Mount Backbox

K2214 ALM Metal surface mount MK backbox for use with 800 Series addressable ancillaries using 517.035.007 cover.

Order Code

517.035.011	K2214 ALM Metal Surface Mount MK backbox

K2142 White Plastic Surface Mount Backbox

K2142 White plastic surface mount MK backbox for use with 800 Series addressable ancillaries using 517.035.007 cover.

Order Code

517.035.010	K2142 White Plastic Surface Mount MK backbox

8621C Steel Flush Mount Backbox

8621C Steel flush mount MK backbox for use with 800 Series addressable ancillaries using 517.035.007 cover.

Order Code

517.035.014	8621C Steel Flush Mount MK backbox

CP Series Callpoints

A comprehensive range of addressable callpoints. All the callpoints are designed to enable an alarm signal to be given by breaking a glass element.

This operates a switch and is indicated by an LED indicator. If required, an optional transparent hinged cover may be installed to guard against accidental operation.

Features

- Integrated LED for easy identification of operation
- Surface or flush mounting
- Extensive range of digital addressable callpoints
- Test key facility, speeds maintenance visits
- Hazardous Areas models available (See Special Hazards Section)
- IP67 Waterproof models for external applications

CP820/MCP820M Indoor Callpoint

The CP820 is an indoor addressable manual callpoint for Fire Panels with MZX technology. It is designed for LPCB approvals and is equipped with a programmable status LED. The MCP820 offers the same features plus an integrated line isolator. In case of a short circuit on the loop, the line isolator isolates the affected part of the loop and ensures, that the parts of the loop, that are not affected from the failure continue to work.

Order Codes

514.800.603.T	CP820 Indoor Callpoint (Thorn Branded)
514.800.603.A	CP820 Indoor Callpoint (ADT Branded)
514.800.603.Y	CP820 Indoor Callpoint (TYCO Branded)
514.800.611	MCP820 Indoor Callpoint c/w Isolator

CP830/MCP830M Outdoor Callpoint

The CP830 is an outdoor addressable manual callpoint for Fire Panels with MZX technology. It is designed for LPCB approvals and is equipped with a programmable status LED. The MCP830 offers the same features plus an integrated line isolator. In case of a short circuit on the loop, the line isolator isolates the affected part of the loop and ensures, that the parts of the loop, that are not affected from the failure continue to work. All manual callpoints provide high speed communication to the MZX panel of a manual fire alarm.

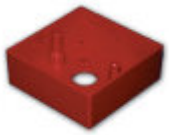
Order Codes

514.800.604.T	CP830 Outdoor Callpoint (Thorn Branded)
514.800.604.A	CP830 Outdoor Callpoint (ADT Branded)
514.800.604.Y	CP830 Outdoor Callpoint (TYCO Branded)
514.800.612	MCP830 Outdoor Callpoint c/w Isolator

Callpoint Ancillaries

	Description	Order Codes
	Red M141 spacer for red CP200/800 KAC callpoints	90-107
	Callpoint hinged cover for use with MCP callpoints models (Colour Clear)	515.001.128
	Black callpoint bezel for CP200/800 models.	515.001.026
	Test key for all MCP and CP style callpoints	515.001.045

Callpoint Back Boxes

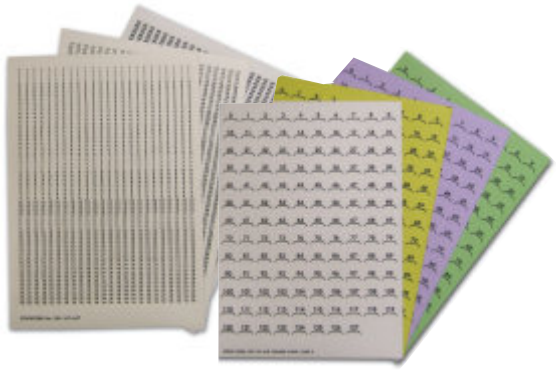
	Description	Order Codes
	Standard Red surface mounting back box for MCP & CP indoor callpoints	515.001.021
	SR2-T Optional Back Box (2 terminals)	10-115

Unless stated the indoor callpoints are supplied as flush mount units. The range is approved for use with the standard backbox. However, SR2-T backboxes are also available.

Callpoint Spare Glasses (Current)

	Description	Order Codes
	EN54 Part 11 Spare Glass for MCP and CP series Callpoints (Pack of 5)	515.001.119

Callpoint & Ancillary Address Labels



Detectors have a special address flag for carrying the address labels - detailed in the detector section. For other devices or on detectors where zone information is also required a series of address labels are available.

Numbered 1 to 250, the address labels are available in 8 different colours to distinguish between different loops. In addition small zone labels can be fixed to the address labels.

Features

- Colour coded for Easy Loop Identification
- Space for Zonal Label
- Strong Adhesive Backing

Order Codes

Zone Labels

599.047.011	Zone labels - Zones 1 - 16
599.047.012	Zone labels - Zones 17 - 32
599.047.013	Zone labels - Zones 33 - 48
599.047.014	Zone labels - Zones 49 - 64
599.047.015	Zone labels - Zones 65 - 80
599.047.016	Zone labels - Zones 81 - 100
599.047.018	Zone labels - Zones 101 - 120
599.047.019	Zone labels - Zones 121 - 140
599.047.020	Zone labels - Zones 141 - 160
599.047.021	Zone labels - Zones 161 - 180
599.047.022	Zone labels - Zones 181 - 200
599.047.023	Zone labels - Zones 201 - 220
599.047.024	Zone labels - Zones 221 - 240

Address Labels

599.047.030	Address Labels 1 - 250 Loop A - White
599.047.031	Address Labels 1 - 250 Loop B - Yellow
599.047.032	Address Labels 1 - 250 Loop C - Purple
599.047.033	Address Labels 1 - 250 Loop D - Green
599.047.034	Address Labels 1 – 250 Loop E Light Blue
599.047.035	Address Labels 1 – 250 Loop F Orange
599.047.036	Address Labels 1 – 250 Loop G Red
599.047.037	Address Labels 1 – 250 Loop H Dark Blue

UNIVERSAL STOPPER

Break seal (pack of 10)

Features

- Prevents accidental operation of callpoints
- Strong polycarbonate construction
- Break Seal provided. (Use is optional)

The UNIVERSAL STOPPER provides protection from malicious or accidental activation of manual callpoints. Available for flush or surface mounted callpoints the UNIVERSAL STOPPER is also available with optional high pitch sounder which is activated when the lid is lifted.

A Break Seal is supplied with all models, to provide extra protection if required.

WARNING:- Break Seals should only to be fitted by agreement with relevant fire authorities.

The UNIVERSAL STOPPER is suitable for all callpoints up to 100 mm square.

Order Codes

STI-13110FR	Surface UNIVERSAL STOPPER Weatherproof
STI-13010FR	Flush UNIVERSAL STOPPER Weatherproof
STI-13020FR	Flush UNIVERSAL STOPPER Weatherproof with Sounder 96dB
STI-13120FR	Surface UNIVERSAL STOPPER Weatherproof with Sounder 96dB
515.001.033	Break Seal Conversion for Old Style STOPPER
STI/BS	Break seals (Pack of 10)

STOPPER II

Features

- Strong polycarbonate construction
- Tamper resistant

Order Code

515.001.034	STOPPER II Surface - Red

The STOPPER II is constructed from tough UV stabilised polycarbonate. Physically larger than the UNIVERSAL STOPPER the STOPPER II extends the number of products to which these tough multi-purpose covers can protect.

It consists of a strong tamper-proof clear polycarbonate cover and frame that fits easily over such products as break glass callpoints.

STOPPER II can also be fitted with an integral battery powered sounder which activates if the cover is lifted.

The STOPPER II is suitable for callpoints up to 160 mm square.

UNIVERSAL STOPPER & WEATHER STOPPER II

Features

- Strong polycarbonate construction
- Provides environmental protection
- Ideal for indoor/outdoor applications

Order Codes

STI-13110FR	UNIVERSAL STOPPER Surface Red
515.001.035	WEATHER STOPPER II Red

The UNIVERSAL STOPPER and WEATHER STOPPER II extends the life of weather exposed devices, such as break glass callpoints, by offering protection against harsh conditions and environments. Experience has shown that this protective cover can extend the life of products installed in saline atmospheres, such as oil rigs and ship decks.

While offering environmental protection the UNIVERSAL STOPPER and WEATHER STOPPER II are constructed from tough UV stabilised polycarbonate which will also guard against tampering, vandalism or accidental operation of devices such as emergency switches.

Smoke Beam/CCTV Guard

The Smoke Beam/CCTV Guard is manufactured from tough coated steel rod and is designed to protect projected beam detectors or CCTV cameras from vandalism or accidental damage.

Suitable for use with System Sensor, Hochiki and Fireray 2000 detectors.

Order Code

516.015.009 STI9625 Smoke beam/CCTV guard

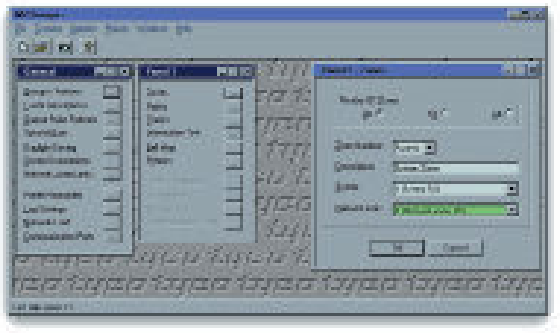
Breakglass Keybox

This tough polycarbonate breakglass keybox is available to protect emergency keys.

Order Code

515.001.043 STI6720 Keybox with printed glass

MZXConsys Programming Software



Features

- Programs the system across multiple sub-panels
- Downloads to the system from one point
- Provides Firmware download as well as configuration download
- Dongle protected
- Provides full project configuration printouts.

MZXConsys is a powerful Windows programming tool which provides full system programming functions and project configuration and issue control. MZXConsys is used on The MZX & ZX panels.

It also supports automatic data transfer to the TXG graphical mimic and alarm management systems. MZXConsys is available under document control from authorised personnel in the Tyco businesses.

Order Codes

557.203.003	MZXConsys USB Dongle & License
557.202.118	MZXConsys download lead (PC to FIM)

MZXRemote

Features

- Facilitates remote diagnostics
- Display identical to panel view
- Remote Assistance

MXRemote is a Windows based software tool for remote service and support of MZX detection panels. MXRemote provides a full function fire panel repeater running on a PC either locally or over dial up telephone lines or via the internet.

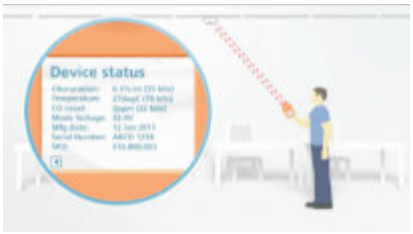
Order Codes

557.203.002	MXRemote Dongle and license (parallel)
557.203.004	MXRemote Dongle and license (USB)
557.202.116	MX-FIM Modem Lead
UDS1100	Lantronics Device Server LAN
542.036	TD36

850EMT Engineering Management Tool

Features

- Simplifies installation and commissioning
- Reduces the possibility of engineer error
- Improves health and safety by removing the need to work at height
- Provides peace of mind through evidence based digital reporting



The engineering management tool communicates with the 850 series and 830 series devices using a 2 way infrared wireless link. Commissioning data is held within the 850 EMT and the technician will be prompted to select and confirm configuration details resulting in an evidence based commissioning document that can be downloaded from the programmer.

Order Codes

516.850.900	850EMT engineering management tool
516.800.922	Spare ancillary programming lead
516.800.924	Pack of 10 spare pins for ancillary lead
516.800.923	Accessory kit (Carry case, shoulder strap & car 12v adaptor)

MZX Service Accessory Kit

A carry case which contains the following items:-
- Car Lighter Adapter
- Shoulder Strap

This provides space for the following:
- 850EMT Engineer Management Tool
- Ancillary Programming Lead
- Mains Charger

Features

- Compact
- Organises Tools
- Sturdy Construction Protects Tools

Order Code

516.800.923	850EMT Engineer Management Tool accessory kit

MZX AVR Programmer

This unit will allows the MZX Technology® Fire Controller Loop Drivers to be updated to the latest software version. When required upgrades can be performed easily and quickly in the field with minimal system downtime. The MZX AVR Programmer is designed for use with MX,MZX,ZX and T2000 addressable fire controllers, please check document 17-05-AVR for compatibility details.

Features

- Pre-Programmed with latest AVR firmware
- Powered from XLM Loop card or FIM, No external power required
- Simple to operate
- Compact handheld device
- Complete with ribbon cable and connector
- High Speed USB port
- Increased RAM increases speed of operation

Order Code

516.800.942	AVR PROGRAMMER EPSILON5-MK4

MZX Service & Spares

Keys & Keyswitches

557.203.005	Set of spare keys for MX Panel (AL102)
557.180.209	Keyswitch assembly for use with MX2 controllers (spare)
557.180.208	MX2 Spare Keys
557.201.508	MZX Spare Key Set
1500080	MZX Keyswitch cylinder
1700421	MZX Keyswitch lead

Housings & Metalwork

557.201.300	BFP801Blank Half Module - Grey Overlay
557.201.306	Standard MX Expansion backbox and chassis plate

CPU FIMs & Loop Cards

557.202.000	FIM801 1-Loop Field I/F Module
557.202.001	FIM802 2-Loop Field I/F Module
557.202.008	FIM801CV – T2000CV only
557.202.007	XLM800 2-Loop Expansion Card
557.202.810	CPU801 Central Processor Unit

Power Supplies

557.202.210	PSU830 Power Supply with Loop Booster
557.202.050	PSM800 Temp Sensor Accessory Kit
557.202.113	PSB to FIM Cable
557.202.608	PMM800 Power monitor module
557.202.609	BAQ60T24 2.5A MZX PSU
557.202.610	BAQ140T24 5A MZX PSU
557.202.611	PMM805 Power Monitor Module - 5 V Repeater
557.202.612	PMM840 Power Monitor Module - 40 V Loop Power

Indication & Expansion

557.202.601	DCM816 16 zone display PCB for MZX125/MZX16R
557.202.602	DCM832 32 zone display PCB for MZX250/251/252
557.202.028	RSM800 Power Supply
557.180.053	Isolated RS485 IC (for U16)
557.202.613	DCM864R Spare Display / Control PCB for MZX 253 (64 red zonal LEDs)
557.202.614	DCM8240 240 zone display PCB for MZX254 and MZXDR

Callpoint Key & Glasses

515.001.045	MCP test key
515.001.119	MCP EN54 Spare Glasses pk of 5

MX Service Tool

516.800.922	MZX Service tool, Spare programming lead
516.800.924	MZX Service tool, Spare pins for programming lead pk of 10

Conventional Systems

Panels

Detectors

Detector Bases

Callpoints & Ancillaries

Conventional Systems

Whilst acknowledging the benefits of addressable systems technology, there still remains a place for conventional fire alarm and detection systems. Conventional systems can be installed using both two and four wire devices, that is with sounder and beacon devices on the same circuits as detectors and call points (2 wire) or on separate circuits (4 wire). The obvious advantage of the two wire system is a saving in the cost of cable and labour. Conventional systems are suitable for the smaller and simpler systems where the functionality of addressable systems is not required, such as small shops, schools, and small industrial units and similar.

Control Panels

The MZX range of conventional panels supports "twin wire" systems up to eight zones and four wire systems from four to thirty two zones thereby providing a panel to suit a wide range of types and sizes of buildings. Both "twin wire" and four wire systems support simple class-change for use in schools, and two stage alarm outputs where phased evacuation is a requirement. Repeater panel options are available with both systems as are a comprehensive range of detectors, call points and sounders and beacons.

Detectors

The MZX range of Conventional detectors, although not as intelligent as their addressable namesakes, employs similar excellent detection and anti-false alarm features. The range includes Multisensors, optical/heat and carbon monoxide/heat, in addition to single channel optical smoke, rate of rise and fixed temperature heat, ionisation chamber and infra-red flame detectors. All detectors within this range can be fitted to a standard or sounder base or a diode continuity base. The detector range is further enhanced by a range of detector ancillaries including, false ceiling mounting adaptor, conduit mounting adaptor, waterproof mounting adaptor, protective cage and remote led indicator allowing installation into a variety of areas and conditions.

Callpoints

The MCP range of call-points includes both indoor and outdoor models. Call points can be flush or surface mounted as a selection of back boxes and bezels are available. Anti-tamper devices are also available which fit around the unit making it less likely for persons to attempt malicious activations. The call point activation window can be a non-fragmenting element which breaks cleanly with no glass fragmentation, but needs replacing after use; or a deformable element which can be reset with a key and does not need replacing. All models have an integral alarm led. In addition to that, the range includes manual DIN call points for inside and outside use.

MZX-c+ Conventional Panel

The MZX-c+ range of Conventional Control Panels are designed to be both installer and user friendly. They are designed and manufactured to a high standard and are approved by LPCB to EN54 parts 2 & 4.

These Panels are available in 4,8,16 & 32 zone versions along with suitable Repeaters for all models.

The 8 to 32 Zone Panels are capable of driving any combination of 8 channel output expansion boards relays, alarm circuits & open collector 0v outputs) up to a maximum of 12 boards which can be set to zonal activated or common output modes.

Each Panel has extensive configuration options but remains easy to install, program and operate and are supported by detailed documentation on commissioning, operation and maintenance.

The Panels are designed to work with a wide range of manufacturers detectors (in addition to Tyco detectors) and are suitable for use in many types of installation including upgrades and new installations.

Features

- 4, 8, 16 and 32 zone versions available
- Semi-Flush mounting using optional bezel
- Supports the complete range of EN54 Approved Series 600 Detectors including photo multi-sensor and CO multi-sensor
- Compatible with System 620 ATEX and IECEx approved intrinsically safe system
- Extensive custom options programmable via switches and front panel controls
- Two stage alarms and investigate delay options
- Day/Night modes and alarm counter (with optional timer module)
- Full EN54 zone operation with options for non-latching, short circuit alarm or indication only circuits

Additional Benefits

- Inputs for remote Silence, Evacuate, Reset and Class change
- Configurable monitored or volt free outputs for Fire, Fault and Protection
- Outputs for zones 1 to 4 (open collector) with 8, 16 or 32 zonal outputs provided by optional expansion boards
- Outputs for Disablement active, Evacuate active and buzzer active (open collector)
- Volt free reset relay. Active for 10 seconds following a panel reset
- 8 to 32 zone systems can drive up to 12 expansion input / output modules per panel
- Drive up to 5 repeater panels

Order Codes

508.032.002.EA	MZXC+ 4 Zone Panel English/Arabic
508.032.003.EA	MZXC+ 8 Zone Panel English/Arabic
508.032.004.EA	MZXC+ 16 Zone Panel English/Arabic
508.032.005.EA	MZXC+ 32 Zone Panel English/Arabic
508.032.006.EA	MZXC+ 8 Zone Repeater 240 Vac
508.032.007.EA	English/Arabic
508.032.008.EA	MZXC+16 Zone Repeater 240 Vac
508.032.012	English/Arabic
508.032.013	MZXC+ 32 Zone Repeater 240 Vac
508.032.014	English/Arabic
508.032.015	MZXC+ 4 Way Expansion Housing
557.201.502	MZXC+ 4 Way Expansion Housing
2605060	with PSU
2605061	MZXC+ 5 Way Expansion Housing
2605062	MZXC+ 5 Way Expansion Housing
2605063	with PSU
2605064	Flush Mount Bezel for MZXC+ 4/8/16
2605065	Zone Panel and Repeater
2605070	C1630 O/P Expansion Interface Board
	C1631 Repeater Interface Board
	C1632 16 Zone Interface Board
	C1633 LED Driver Board
	C1634 Relay Output Board
	C1635 Monitored Output Board
	C1651 MZX-c+ Timer Board

MZX-e Extinguishing Control Panel

The MZX-e extinguishing control panel is powerful yet user-friendly and is designed and manufactured to a high standard. The panel has extensive configuration options but is easy to install, programme and operate. The removable chassis enables the engineer to "first fix" an empty cabinet and then fit the chassis at the commissioning stage. There is a comprehensive range of accessories available to meet most customer requirements.

Operation

Three fully-monitored detection zones are provided. Zones 1 and 2 normally provide first stage and second stage fire conditions to allow extinguishant discharge (coincidence detection zones). Zone 3 is an auxiliary zone for detection only purposes. Zone 4 is used as a manual release zone.

Facilities

Three fully-monitored alarm circuits are provided, each rated at 0.5A with various configuration options via the engineers DIL switch settings. Two circuits are designed to provide audible warning of any fire condition and one circuit to provide an individually distinct audible warning of the pre-discharge, discharged and emergency hold condition. Two fully-monitored actuator/solenoid circuits, each rated at 1 A, operate simultaneously upon "extinguishant release". An RS485 multi-drop circuit link supports up to 7 Status Controller/Indicators of any type mixed on the communication path. Additional terminals and configuration options allows the engineer to configure the manual release, abort and hold switches to either data comms or hard wired inputs as required.

Normally-open inputs provide for remote evacuate, silence alarms, system reset, lock-off input, low pressure and gas discharged pressure switch input.

Outputs are provided for first stage signalling, second stage signalling, system discharged, common fire and common fault. These outputs may be configured as either Volt-Free C/O contacts or monitored 24 V (50 mA) outputs. A system reset Volt-Free relay is also provided.

Features

- Approval to EN 12094-1
- Approval to EN 54-2 and 4
- Comprehensive gaseous extinguishing system support
- Monitored inputs for gas discharged, gas low, isolation valve closed/abnormal, gas trapped in manifold
- Control inputs for auto/manual, gas hold, gas abort
- 1 minute actuator cut off option
- Monitored actuator/solenoid release
- Extensive disablement options
- Common fire, fault, relay / monitored output facilities
- 1st, 2nd, 3rd stage and gas discharged relay / monitored output facilities
- Reset relay facilities

Configuration

The use of DIL switches on the internal motherboard enables the engineer to easily configure the extensive options available and view the panel's configuration upon any return visit.

Additional Benefits

- Intrinsically safe barrier settings
- Metron or solenoid compatible
- Single or double knock operation
- Pre-discharge delay adjustable from 0 to 60 seconds
- Discharged indication with or without pressure switch
- Inhibit silence alarms until gas discharged
- Latching or non latching fault indication option
- Option for rapid buzzer pulse when gas discharge is imminent
- One man zone and sounder test
- Easily removable chassis

MZX-e Extinguishing Control Panel

Order Codes

508.033.050.EA	MZX-e Extinguishing Control Panel English / Arabic
508.033.002.EA	MZX-e SLU1 Status Lamp Unit, Indication only English / Arabic
508.033.003.EA	MZX-e SLU2 Status Lamp Unit, Indication, Auto/Manual Select and Manual Release English / Arabic
508.033.004.EA	MZX-e SLU3 Full Function Status Lamp Unit, Indication, Auto/Manual Select, Manual Release, Hold, Abort & Time Counter English / Arabic
508.033.005.EA	MZX-e SLU4 Weatherproof Status Lamp Unit, Indication and Auto/ Manual Select English / Arabic
508.033.050.NL	MZXE Extinguishing Control Panel Dutch
508.033.050.CZ	MZXE Extinguishing Control Panel Czech
508.033.050.DS	MZXE Extinguishing Control Panel Danish / Swedish
508.033.050.BL	MZXE Extinguishing Control Panel French / Flemish
508.033.002.NC	MZXE SLU1 Status Lamp Unit, Indication only Dutch / Czech
508.033.002.DS	MZXE SLU1 Status Lamp Unit, Indication only Danish / Swedish
508.033.002.BL	MZXE SLU1 Status Lamp Unit, Indication only French / Flemish
508.033.003.NC	MZXE SLU2 Status Lamp Unit, Indication, Auto/Manual Select and Manual Release Dutch / Czech
508.033.003.DS	MZXE SLU2 Status Lamp Unit, Indication, Auto/Manual Select and Manual Release Danish / Swedish
508.033.003.BL	MZXE SLU2 Status Lamp Unit, Indication, Auto/Manual Select and Manual Release French / Flemish
508.033.004.NC	MZXE SLU3 Full Function Status Lamp Unit, Indication, Auto/Manual Select, Manual Release, Hold, Abort & Time Counter Dutch / Czech
508.033.004.DS	MZXE SLU3 Full Function Status Lamp Unit, Indication, Auto/Manual Select, Manual Release, Hold, Abort & Time Counter Danish / Swedish
508.033.004.BL	MZXE SLU3 Full Function Status Lamp Unit, Indication, Auto/Manual Select, Manual Release, Hold, Abort & Time Counter French / Flemish
508.033.005.NC	MZXE SLU4 Weatherproof Status Lamp Unit, Indication and Auto/ Manual Select Dutch / Czech
508.033.005.DS	MZXE SLU4 Weatherproof Status Lamp Unit, Indication and Auto/ Manual Select Danish / Swedish
508.033.005.BL	MZXE SLU4 Weatherproof Status Lamp Unit, Indication and Auto/ Manual Select French / Flemish

Extinguishing Door Interlock Ancillaries & T500 Series Spares

A microswitch lock keep can be used with a deadlock to provide a signal to the panel to ensure that the extinguishing system is only put into Automatic mode when the door is locked shut.

Order Codes

527.001.028	Micro-switch Lock Keep & Back-plate For Deadlock
599.001.012	Lamp 28 V 60 mA Used On T525

Releasing Callpoints

A range of Call Points that can be used as part of a system to efficiently manage the release of any extinguishing gas in accordance with EN12094-3

Designed for indoor (IP24D) and outdoor (IP67) applications. Multilanguage function marking labels English, Spanish and Portuguese.

Order Codes

540.007.001	E1 Single Red lamp unit Heavy Duty IP67 Cast Aluminium Surface Mount Lamp Unit
509.030.113	Extinguishant release indoor
509.030.114	Extinguishant release outdoor
509.030.115	Extinguishant abort indoor
509.030.116	Extinguishant abort outdoor

Weatherproof Extinguishing Indicator Units

E1 Single Red lamp unit Single 24 Vdc red lamp labelled Extinguishing System Operated'

Order Code

509.030.117	T561 Extinguishing Release Manual Callpoint

Weatherproof Extinguishing Indicator Units

Heavy Duty IP67 Cast Aluminium Surface Mount Lamp Unit
Three 24 Vdc lamps:

Red labelled 'Extinguishing System Operated'
Amber labelled 'Extinguishing System Automatic Control'
Green labelled 'Extinguishing System Manual Control'

Order Code

540.007.002	E3 Red/Amber/Green lamp unit

Point Detectors

Features

- Unique early detection enhanced CO fire detector
- Intelligent Universal HPO Smoke Detector
- Low profile, discreet and unobtrusive
- Superior performance and reliability
- Designed for fast, easy installation
- Integral and remote alarm LED
- Series of Product Approvals

Through innovative design the Series 600 detectors have reduced the installation and servicing time to a minimum, needing only one visit to complete the installation and having a park position for the detector to ease the servicing.

The Series 600 detectors include the unique enhanced Carbon Monoxide CO fire detector, which provides a general purpose fire detector with unprecedented early detection capability and excellent false alarm immunity. The CO fire detectors are the first choice for sleeping risks.

Also included within the range is the intelligent high performance optical smoke (HPO) detector. The use of the patented optical sensing chamber, together with refined signal processing, has enabled the introduction of a smoke detector suitable for fast, reliable smoke detection of both slow and fast developing fires.

The HPO can be seen as a truly universal smoke detector, suitable for most applications.

High Performance Optical Smoke

Order Code

516.600.002 Model 601PH High performance optical smoke detector

These detectors react to the whole range of fire products from slow smouldering fires, producing visible particles to open flaming fires producing large numbers of very hot smaller sized aerosols. It combines optical and heat detector technology to detect clear burning fire products which hitherto could only be easily detected by ion-chamber detectors. For normal ambient conditions, the high performance optical detector behaves as a normal optical detector.

Only when a rapid rise in temperature is detected does the sensitivity of the detector increase and the presence of smoke will confirm a fire condition. The HPO will not operate on a rate of rise of temperature alone.

Enhanced Carbon Monoxide Fire

Order Code

516.600.004 Model 601CH Enhanced Carbon Monoxide Fire detector

The CO fire detector is a unique general purpose fire detector which provides very early warning of slow smouldering fires. Ideal for sleeping risks the CO fire detector is also well suited to many applications where heat detection is insufficient but smoke detection causes false alarms. As CO travels more freely than smoke the position of CO fire detectors is more flexible.

This feature is particularly useful in large complex structures such as atria and warehouses, where position of smoke detectors is difficult.

Optical Smoke

Order Code

516.600.001 Model 601P Optical Smoke detecor

These detectors are capable of detecting the visible smoke produced by materials which smoulder or burn slowly, i.e. soft furnishings, plastic foam etc;. or 'smoke' produced by overheated but unburnt PVC. These detectors are particularly suitable for general applications and areas where cable overheating may occur e.g. electrical services areas. The novel design of the asymmetrical sampling chamber and signal processing techniques stop unwanted alarms caused by very small insects. i.e. thrips.

Smoke entering the sampling chamber scatters the infra-red light pulses onto a photo-diode. These pulses are converted to an electrical signal which is compared against a preset alarm level.

Heat

These detectors are capable of detecting the visible smoke produced by materials which smoulder or burn slowly, i.e. soft furnishings, plastic foam etc;. or 'smoke' produced by overheated but unburnt PVC. These detectors are particularly suitable for general applications and areas where cable overheating may occur e.g. electrical services areas. The novel design of the asymmetrical sampling chamber and signal processing techniques stop unwanted alarms caused by very small insects. i.e. thrips. Smoke entering the sampling chamber scatters the infra-red light pulses onto a photo-diode. These pulses are converted to an electrical signal which is compared against a preset alarm level.

Order Codes

516.600.003	Model 601H-R Rate of Rise Heat Detecor
516.600.214	Model 611H-F Fixed Teperature 60° C
516.600.033	Model 631H-F ixed Teperature 60° C

Solar Blind Infra Red Flame Detector

Flame detectors, unlike smoke and heat detectors, do not rely on convection to transport the fire product to the detector, nor do they rely on a ceiling to trap the products. They can therefore, be used to protect large open areas without sacrificing speed of response to flaming fires. In order to ensure full coverage, however, flame detectors do require direct line of sight to all parts of the protected area.

Infra-red flame detectors such as the 601F are designed to respond rapidly to fires which involve cleanburning fuels such as alcohol or methane, ie fires which would not be detected by smoke detectors. The 601F Flame detector, by virtue of it's operating wavelength and flicker discrimination, is insensitive to normal environmental influences. For outdoor use, a solar-blind detector (e.g. the S200Plus) should be used.

The 601F flame detector should, normally, only be used inside buildings to supplement heat and smoke detectors.

Order Code

516.600.006	601F Flame detector

Conventional Detector Bases & Ancillaries

Features

- Optional relay bases
- Remote indication LEDs
- Optional conduit entry backboxes
- Protective wire cages

The 600 Series range of low profile detectors provide a comprehensive range of highly effective and aesthetically pleasing smoke and heat detectors with worldwide approvals.

The unique design and leading edge technology of the detectors go beyond the detection technology itself. The range of detector bases is designed to make low profile detector installations cost effective, aesthetically pleasing and easy to install and maintain – thus minimising disruption.

The detector bases include standard universal bases, which have no integral electronics, thus making them low cost and low maintenance. Alternatively, a range of functional bases incorporate sounders and relays to provide a cost effective method of adding functions and flexibility to the fire detection installation.

Detector Bases take two forms:

- **Standard Detector Bases**
- **Functional Detector Bases**

Standard universal detector bases are compatible with the Series 600 low profile detectors. The standard bases have no electronics and even when the detectors are connected to the bases, they can be electrically disconnected and left in a ‘park’ position. This enables wiring integrity tests to take place without any damage to electronics. An optional, tool removable locking pin allows the detector to be fixed in place to prevent tampering.

Standard Detector Bases
4B 4" Detector Base

The new 4B 4" detector base is designed to snap-fit to the ceiling tile adaptor or it can be screw fixed to a ceiling in the traditional manner.

Features

- Compatible with 830 series detectors
- Drives a remote indicator
- Detector locking pin provided with every base
- Snap fits to the Time Saver Ceiling Tile Adaptor
- Fits directly to a British or European electrical back box
- Temporary park position
- Break-outs for surface mount

Order Code

517.050.041 4B 4" Detector Base

4B-D 4" Diode Continuity Base

The 4B-D Continuity Base is a standard 4 inch base fitted with a continuity diode, for use with all Series 600 detectors.

Features

- Compatible with Series 600 Low Profile Detectors
- Designed for two wire operation
- Facility to drive a remote indicator
- A breakout locking key is provided as an integral part of the base. It can be used to lock the detector into position
- A temporary park position is provided so that the field wiring can be tested with the detector in situ
- Maybe fitted directly to a British or European conduit box or directly onto the ceiling

Order Code

517.050.045 4B-D 4" Diode Continuity Base

4B-6A 4" to 6" Adaptor

The 4B-6A 4" to 6" Adaptor is designed for use with U.S. style 6" electrical back boxes and provides a flush architectural trim between the electrical box and the 4B-C 4" continuity base. It can also be fixed directly to a ceiling and used to conceal marks left when older, large diameter detectors are replaced with MZX Technology.

Features

- Adapts 6" electrical boxes to fit the 4B-C 4" base
- Architectural trim for neat appearance
- Concealed fixings
- Use to conceal marks left by old detectors

Order Code

517.050.054 4B-6A 4" to 6" Base Adaptor

Ceiling Tile Adapter

Features

- Cuts installation time by 30%
- Commission the system before the suspended ceiling is installed
- Suitable for ceiling tiles from 1 mm to 30 mm thick
- Made from flame retardant material
- No additional back-box is required
- Time saver is designed for use with a new snap-fit 4" detector base
- Adaptor available for use with the AV base & other devices

The Time Saver Ceiling Tile Adaptor is used with the 4" snap fit base and consists of three parts, a bezel and clamp that are fitted to the ceiling tile and a back-box that carries the detector and base assembly. It is available as a complete unit or alternatively, the back-box can be ordered separately, as can the bezel and clamp assembly. Ordering the parts separately may be preferred if there is an extended period before the false ceiling is installed e.g. "shell and core" projects. Requires a 127mm diameter hole. The CTA adaptor plate allows the Time Saver Ceiling Tile Adaptor to be used with other devices such as the AV Base, 802SB or Mini Firecryer.

Order Codes

517.050.060	Ceiling Tile Adaptor Kit consists of 1 x 517.050.056 and 1 x 517.050.057
517.050.056	CTA-BB CTA Back Box
517.050.057	CTA-BC CTA Bezel and Clamp
517.050.058	CTA-AP CTA Adaptor Plate

Functional Detector Bases
Tyco MKII Sounder Base

Features

- Manufactured to EN54 part 3
- Integral sounder and detector base
- Volume and tone adjustable after installation
- Low Power Synchronisation
- Do not require use of a standard base

A low current range of sounder bases for use with Conventional Fire Alarm Control Panels.

Order Codes

577.001.035	601SB Conventional Sounder Base
577.001.037	601SBD Conventional Diode Sounder Base
517.050.022	Volume Pot Spare Cover (1 sheet of 144)
517.050.005	4" Detector Base Locking Pin Kit (PK100)

Remote Indication LED

All detector bases have the ability to drive a remote LED in the event that the installed position of the detector is not easily visible.

Features

- UK Single gang mounting
- High intensity red LED

Order Code

540.003.006	Remote LED

4B-EM 4" Euro Mount

The euro-mounting base provides a matching back box, which allows the 4" bases to be ceiling mounted with conduit entries for standard 18 and 21mm conduit.

Features

- 2 x 18 mm conduit entries
- 2 x 21 mm conduit entries
- Fits all 4" Bases
- Accepts up to 8 accessory terminals

Order Codes

517.050.052	4B-EM 4" Euro Mount
517.050.612	Base Accessory terminal kit (pack of 10)

4B-DHM Deck Head Mounting

For humid and environmentally challenging applications such as marine or offshore installations, the 4B-DHM deck head mount provides a sealed waterproof mounting which protects the electrical connections in the base. It can be screwed, bolted or welded to the deckhead. Supplied with 1 terminal. If more are required, use the optional base accessory terminal kit.

Features

- 4 x 20 mm gland entries
- Fits ALL 4" bases
- IP55 with supplied gasket

Order Codes

517.050.051	4B-DHM Deckhead Mount
517.050.612	Base accessory terminal kit (pack of 10)

Protective Detector Cage

Robust steel protective cage for Series 800 detector ranges using the 5" bases. Ideal for schools and sporthalls or whenever detectors need protection. Strong coated steel construction with 4 point fitting.

Order Code

517.050.614	CW-5B Detector Cage

Protective Detector Sounder Base Cage

White powder coated steel protective cage for Series 800 Detectors fitted with a sounder base. Internal dimensions: 120 mm dia x 80 mm deep.

Order Code

517.050.011	Steel Protective Detector Cage

SMP69 Duct Probes

Warning: Duct probe units sited in the common duct work to several extract grills may fail to respond to smoke from any one extract due to the effect of dilution. The SMP units will not respond to airflow of less than 1.5 m/sec.

Where smoke within duct work needs to be detected these duct probe units provide an economical solution, for use with series 600 detectors. The SMP Duct Probe Units are designed to be installed in air conditioning supply and exhaust ducts for the purpose of monitoring the airflow for smoke and combustion products.

For general applications it is recommended that 600 series photoelectric smoke detectors rather than ionisation smoke detectors are used.

The SMP stainless steel probe unit is designed to withstand the demanding environments of the offshore oil and gas industries. The units are designed to operate in airspeeds of 1.5 to 25 metres per second. A range of sampling tubes from 525mm to 1,575mm are available.

Order Codes

517.025.035	SMP69 Stainless Steel Duct Probe unit and universal detector base for Series 600/800 Detectors
517.025.028	DPS450 Probe tube stainless steel 450 mm and exhaust
517.025.029	DPS600 Probe tube stainless steel 600 mm and exhaust
517.025.030	DPS750 Probe tube stainless steel 750 mm and exhaust
517.025.031	DPS900 Probe tube stainless steel 900 mm and exhaust
517.025.032	DPS1200 Probe tube stainless steel 1200 mm and exhaust
517.025.033	DPS1500 Probe tube stainless steel 1500 mm and exhaust

DPK6 Duct Probe

The DPK6 duct probe units have been developed to detect smoke in ventilation ducts. They offer significant benefits in terms of performance and installation. The system comprises a single duct probe tube and housing specially designed for optimum airflow through the smoke detector and suitable for use in incoming, outgoing and circulation air ducts of ventilation and conditioning systems. The duct probes can operate across a wide range of airflow speeds and are designed to comply with EN 54-27 and VdS.

Unlike more traditional duct probe units that employ an inlet and exhaust tube with sampling holes, the DPK6 unit uses a highly efficient single sampling tube that is slotted along its length. This allows the sampling tubes to be cut to the desired length whilst maintaining maximum efficiency.

In order to reduce the time required to test the duct probe detector during routine maintenance, an aperture is provided that allows aerosol test gas to be directed at the detector without having to dismantle the unit.

Accessories

Tyco Fire Protection Products offers 3 lengths of the duct probe tubes. The tube is made of aluminium and can easily be shortened to suit the span of the air duct. Where the unit is mounted on insulated or circular air ducts, the DPK6-MB mounting bracket is required.

Features

- DPK6 for use with Generation6 multi-sensor detectors 850PH and 830PH with built-in 4B-C
- 4" Continuity Base
- Designed to comply with EN 54-27
- One-pipe air sampling system
- Patented venturi pipe and duct housing
- Test hole on cover
- Simple installation
- Simple service and maintenance

Order Codes

517.025.056	DPK6 Duct Probe with 4B-C 4" Continuity Base
517.025.058	DPK6-60 - Duct Probe Tube 60 cm
517.025.059	DPK6-150 - Duct Probe Tube 150 cm
517.025.060	DPK6-280 - Duct Probe Tube 280 cm
517.025.061	DPK6-MB - Duct Pobe Mounting bracket
517.025.055	DPKF - Filter

MCP Series Callpoints

A comprehensive range of callpoints for use with conventional systems. All the callpoints are designed to enable an alarm signal to be given by breaking a glass element.

This operates a switch and is indicated by an LED indicator. If required, an optional transparent hinged cover may be installed to guard against accidental operation.

Features

- Integral LED indicator for easy identification of operation
- Surface or flush mounting
- Extensive range of conventional callpoints
- Test key facility, speeds maintenance visits
- Optional transparent hinged cover
- Hazardous areas models available (See Special Hazards Section)
- IP67 Waterproof models for external applications

Conventional MCP200 Callpoint

The MCP200 is a red indoor callpoint with 'alert' resistors and LED indicator. The MCP200 is LPCB approved.

Order Codes

514.001.142.A	MCP200 No backbox - ADT brand
514.001.142.T	MCP200 No backbox - Thorn brand
514.001.142.Y	MCP200 No backbox - Tyco brand

Conventional MCP210 Callpoint

The MCP210 is a red indoor callpoint with LED indicator and evacuate resistors. The MCP210 is LPCB approved.

Order Codes

514.001.143.A	MCP210 No bacbox - ADT brand
514.001.143.T	MCP210 No backbox - Thorn brand
514.001.143.Y	MCP210 No backbox - Tyco brand

Conventional MCP230 Callpoint

The MCP230 is a IP67 red outdoor callpoint with "alert" resistors and LED indicator and is LPCB approved.

Order Codes

514.001.110.A	MCP230 ADT branded
514.001.110.T	MCP230 Thorn branded
514.001.110.Y	MCP230 Tyco branded

Prescient III Indoor Alarm Callpoint

A manual semi flush mounted break glass callpoint with integral alarm LED and activation resistor making it compatible with the Prescient III Suppression Panel.

Order Codes

2501012	Conventional Manual Call Point with Glass Element (No Backbox) Supplied with test key.
515.001.021	Backbox for callpoints to allow surface mounting.

Prescient III Outdoor Alarm Callpoint

A weatherproof manual alarm call point with integral alarm LED and activation resistor making it compatible with the Prescient III Suppression Panel. Operation is by break glass.

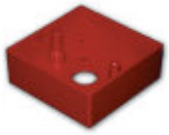
Order Code

2501176	Conventional Weather Proof Manual Call Point with Glass Element. Supplied with backbox and test key.

Callpoint Ancillaries

	Description	Order Codes
	A white keyswitch in a callpoint housing featuring the words "Bomb Alert" in English.	514.002.002.A
	Red M141 spacer for red CP200/800 KAC callpoints	90-107
	Callpoint hinged cover for use with MCP callpoints models (Colour Clear)	515.001.128
	Black callpoint bezel for CP200/800 models.	515.001.026
	Test key for all MCP and CP style callpoints	515.001.045

Callpoint Back Boxes

	Description	Order Codes
	Standard Red surface mounting back box for MCP & CP indoor callpoints	515.001.021
	SR2-T Optional Back Box (2 terminals)	10-115
	EN54 Part 11 Spare Glass for MCP and CP series Callpoints (Pack of 5) CP200 Glasses, clear English text on white bckgd. No logo (Pack of 5) Deformable operating unit "glass" for use in place of glasses, for kitchens or other areas where glass is not acceptable. For MCP callpoints only CP200 Spare glasses, black Arabic text on a white background (Pack of 5)	515.001.119 515.001.025 515.001.127 515.001.014

2.20

Service & Spares

Order Codes

MZX-c+ CONVENTIONAL PANEL

557.201.508	MZX-c+ Spare Key Set
2605071	MZX-c+ 5.0 AMP PSU - C1652
2000636	MZX-c+ Transformer 1.5 A
2000637	MZX-c+ Transformer 3.0 A
2000638	MZX-c+ Transformer 5.0 A

MZX-e EXTINGUISHING PANEL

557.201.508	MZX-e Spare Key Set

EXTINGUISHING ANCILLARIES

599.001.029	24 V5WSBC SP Bulb for E1/E3

Sounders & Beacons

Loop Powered Sounders

Bells

Sounders

EN54-23 Beacons

Beacons

Addressable Loop Powered Sounders & Beacons

Features

- High output programmable sounder base and sounder beacon base
- One point of installation for detector, isolator, sounder & beacon
- Loop powered from the MZX Technology Digital Loop
- High brightness Multi-LED Beacon
- Software programmable
- 15 Tones and 2 Flash Rates
- Integral line isolator
- RSM (Reflective Sound Monitoring)
- Can be used as a standalone device using the sounder blanking cap
- Optional surface mount plastic conduit adaptor
- Visual alarm approved to EN54-23 open category
- Audible alarm approved to EN54-3

One Point of Installation – Unique Solution with Huge Savings

Combining a detector base, sounder, beacon and line isolator in one low cost unit will result in a dramatic reduction in the final installation cost. Typically 40% to 55% of the installation costs per point can be saved. This presents an exciting opportunity for sellers. This is achieved without the need for specialist high cost detector heads as standard 830 series MZX detectors are used.

Unique

When used with the 3oTec triple multi-sensor the AV base can provide a completely unique solution combining fire detector, toxic gas detector, isolator, sounder and beacon into a single very cost effective single point of installation.

Reflective Sound Monitoring (RSM) – Patented* Solution significantly reduces Risk

Reflective Sound Monitoring is employed to monitor the audio output of the LPSB3000 and LPBS300 by listening to the output and reporting any sounders that are not working. RSM is a Tyco patented* technology and was successfully introduced with the Loop powered Symphoni sounders. It is particularly beneficial during regular weekly sounder tests where users can be satisfied that all their sounders are working, even if the building is not fully occupied at the time of the test. Failure of the beacon would also generate a fault at the control panel.

EN54 Compliant

The addressable loop powered sounder base meets the requirements of EN54 part 3 whilst the loop powered addressable sounder with beacon base is also approved to EN54 part 23 as an open category device.

Loop Power Capacity

The advanced 3000 series sounders and beacons are independently addressed and are therefore separately controllable from the MZX Digital loop. The maximum number that can be driven from a single loop is dependant on the number of addresses available, the volume selected and the flash rate of the beacon. MXDesigner version 5.0 should be used to accurately determine loop loading and battery size. Typically, at full volume of 90dBA, 50 x LPBS3000 sounders or 30 x LPAV3000 sounder beacons at 0.5Hz flash rate can be driven by a single 1Km loop. That gives a typical maximum of 240 sounder beacons at full volume from a single 8 loop panel.

Built-in Isolation

As the line Isolator is now integral to the device the need for separate line isolation devices is reduced.

Tones

15 Tones are available from the sounder, which include tones compatible with the LP Symphoni range, 802SB sounder base and the LPBB520 (loop powered Besson Banshee). 4 sound levels 60dB to 90dB (±3dB) and 2 flash rates 1/2Hz & 1Hz are available.

MZX Consys

The AV base range of devices are fully supported by Consys Version 14 and later, the point input dialog box provides an easy method for setting the Tones, Volume and Flash rate of the device. The only operation required at the device is to set the address using the 850EMT device programmer.

Order Codes

516.800.957	LPSB3000 Sounder only L/P addressable base
516.800.969	LPBS3000 Loop Powered Beacon-Sounder Base
516.800.959	DAB3-4 Mounting flange – type B for conduit (supplied in packs of 10)
557.001.040	Mk 2 Sounder Cap pack of 5

Note: Detectors supplied separately

Loop Powered Symphoni Sounders and Sounder Beacons

Features

- Loop Powered – Reduced installation costs
- High Output/Low consumption – Lower lifetime costs
- Indoor and Outdoor models – Same sounder tones in all areas
- Sounder/LED Beacon Version
- 16 Tones and 2 Flash rates – Suits individual requirements
- Reflective Sound Monitoring RSM - Reassurance that ALL sounders are working
- Integral Line Isolator – Saves cost and installation time
- Visual alarm approved to EN54-23 open category
- Audible alarm approved to EN54-3

Models Available

The Sounder only models are available with a red or white housing suitable for indoor use and an IP65 rated red housing for outdoor applications.

The Audio / Visual models, which incorporate a highly efficient white LED beacon, are also available with a red or white housing for indoor use and an IP65 rated red housing for outdoor applications.

Reflective Sound Monitoring

The LP Symphoni utilising Reflective Sound Monitoring (RSM) employs a transducer to actively monitor the units' sound output during the weekly sounder test and will report back to the control panel if it fails to detect the sounder operating when it has been commanded to, this ensures that the LP Symphoni range of sounders will in the unlikely event of a fault, display it immediately on the fire controller and is therefore not dependant upon the staff within a building reporting a sounder failure.

Built-in Isolation

As the line Isolator is now integral to the device the need for separate line isolation devices is reduced.

Tones

16 Tones are available from the sounder, which include tones compatible with the 802SB sounder base and the LPBB520 (loop powered Besson Banshee). Dutch slow whoop and the DIN 1Hz sweep are included.Two sound levels 103dB & 90dB (±3dB).

EN54 Compliant

The addressable loop powered sounder meets the requirements of EN54 part 3 whilst the loop powered addressable sounder with beacon is also approved to EN54 part 23 as an open category device.

Order Codes

516.800.960	LPSY800-R L/P Symphoni addressable sounder red body indoor use
516.800.961	LPSY800-R L/P Symphoni addressable sounder whitebody indoor use
516.800.962	LPSY865 Symphoni IP65 addressable sounder IP65 red body outdoor use
516.800.966	LPBS800-R Open class Symphoni addressable beacon sounder red body white flash indoor use
516.800.967	LPBS800-W Open class Symphoni addressable beacon sounder white body white flash indoor use
516.800.968	LPBS865 Open class Symphoni addressable beacon sounder IP65 red body white flash outdoor use

Electronic Solenoid Bell

Unique patented alarm bell with miniature solenoid and integrated electronic control. No backbox required for surface wiring.

Features

- Weatherproof Option
- Flexible Mounting Option
- Attractive Design

Order Codes

20-100	6" 24 Vdc Electronic bell, weatherproof IP33C
20-101	6" 24 Vdc Electronic bell - red IP21C -
20-111	6" 24 Vdc Electronic bell - white IP21C

Banshee Excel Sounders & Excel Lite Sounder Beacons

Features

- Modern aesthetic design
- 32 Selectable tones
- 3 Volume settings
- Push and twist mount
- Shallow and deep bases
- Available in red or white
- Low current consumption
- 2 Stage alarm available
- Independently switched sounder or beacon
- Xenon beacon with the Excel Lite

Banshee Excel Sounders

The Banshee Excel sounder replaces the Banshee Multi Tone range of Sounders. It uses the same technically superior rocking arm transducer to reproduce the familiar 32 tones of the previous Banshee and Bedlam ranges.

Banshee Excel Lite Sounder Beacon

The Banshee Excel adds the Banshee Excel Lite Sounder Beacon to its range using a high output xenon with the familiar sounder. The Banshee Excel Lite can be used as a multi stage device by switching the beacon and the sounder independently using a third wire.

Banshee Sounder Accessories

The combined mounting bracket for the Besson Multi-tone Banshee and Xenon Beacon allows quick and neat installation of combined sounders and beacons. The bracket allows the following electronic sounders to be mounted with the range of 1W Xenon Beacons.

Order Codes

576.501.060	Banshee Excel sounder, red, IP45 (replaces 576.501.005.A & 576.501.005.T)
576.501.061	Banshee Excel sounder, white, IP45 (replaces 576.501.009 & 576.501.025.A)
576.501.062	Banshee Excel sounder, red, IP66 (replaces 576.501.016.A & 576.501.016.T)
576.501.063	Banshee Excel Lite, red sounder, red xenon beacon, IP45

Yodalarm

This versatile range of sounders are ideally suited for fire, safety and security hazard warning.

Order Codes

YA30/D/RF/WR	Sounder YA30 100 dB 24 VDC IP65
YA50/D/RF/WR	Sounder YA50 110dB 24 VDC IP65
YA80/D/RF/WR	Sounder YA80 115dB 24 VDC IP65

24 Vdc Symphoni Sounder

The 24 Vdc Symphoni Sounder is a general purpose internal sounder, available either as a very high output sounder for noisy areas, or a high output low current sounder for applications where power is limited. Both versions share the same horn and backbox which has double cable entries for ease of installation.

Order Codes

576.501.200	SY/R Low Power Red Symphoni Sounder (3 tone)
576.501.201	SY/W Low Power White Symphoni Sounder (3 tone)
576.501.202	SYHO/R High Output Red Symphoni Sounder (32 tone)
576.501.203	SYHO/W High Output White Symphoni Sounder (32 tone)

The low power version has 3 selectable tones which may be employed for one, two or three stage alarm applications. The high output version has 32 selectable tones and retains full tone compatibility with the Roshni, Squashni and Askari product ranges.

Roshni Sounders

A flexible alarm sounder for Fire and Security applications complete with volume control and dil switch to provide 32 tones.

Low profile Roshni with Deep base offers IP65 protection. All Roshni sounders have synchronised start for self synchronisation without third wire.

Order Codes

ROSHRDSR	ROSHNI Red Sounder c/w deep base
576.501.220	ROSHNI Red Sounder c/w shallow base
576.501.221	ROSHNI White Sounder c/w shallow base
576.501.222	ROSHNI/Flashni Red c/w deep base
576.501.223	ROSHNI/Flashni White c/w deep base

Multi-Tone Askari Compact (Conventional Only)

The Multi-Tone Askari Compact is a compact bedroom sounder for unobtrusive installation. It comes with a volume control, is fully compatible with Roshni tones and has a synchronised start. A surface mount backbox is available from the supplier to special order.

Order Codes

576.501.242	White Multi Tone Askari Compact Sounder
576.501.243	Red Multi Tone Askari Compact Sounder

EN54-23 Beacons

Features

- A new harmonised standard became mandatory from December 31st 2013 which is EN54-23:2010.
- This standard is for all visual alarm devices (beacons) used on a fire system. There are several reasons for providing visual alarms for fire alarm systems, including:
- To alert people with a hearing loss
- Noisy areas where occupants are wearing ear defenders
- For staff alarms
- For use in broadcasting studios
- Areas such as hospital operating theatres
- Stage one visual alarms for extinguishing systems

Each of these applications will be required to use visual alarm devices that comply with EN 54 – 23. The standard does not apply to visual indicators such as remote LEDs or to supplementary visual alarms that are not considered part of the primary alarm system.

The standard covers planning, design, installation, commissioning and service and is intended to ensure that visual alarms are sufficiently bright to be effective as a primary means of alarm. To achieve this, the standard stipulates a minimum light level of 0.4lux on any surface, and manufacturers must specify the room size their product will cover with this level of illumination.

Order Codes

812007FULL-0108X	Solista LX wall beacon (Red body, white flash, shallow base) EN54-23 W-2.4 7.5
812008FULL-0109X	Solista LX wall beacon (Red body, white flash, deep base) EN54-23 W-2.4 7.5
812020FULL-0121X	Solista LX ceiling beacon (White body, white flash, shallow base) EN54-23 C-3-7.5
500023FULL-0023X	RoLP LX wall beacon (Red body, white flash, rolp base) EN54-23 W-2.4 7.5 (Use with RoLP sounder)
500043FULL-0043X	Symphoni G1 LX wall beacon (Red body, white flash, symphoni) indoor base EN54-23 W-2.4 7.5
500048FULL-0048X	Symphoni G1 LX wall weatherproof beacon (Red body, white flash, symphoni outdoor base) EN54-23 W-2.4 7.5

Single Gang Lamp/Buzzer Units

Lamp Buzzer units may be used for local alarms when high level audible warnings may not be appropriate. Available in flush and surface mount versions to fit standard single gang backboxes.

Features

- Low Current
- Flush or Surface Mount
- Hi-Brightness LED

Order Codes

540.011.012	Single gang flush mount LED (red)/ Buzzer Unit labelled 'Fire Alarm'
540.011.013	Single gang surface mount LED (red)/ Buzzer Unit labelled 'Fire Alarm' c/w surface backbox

Solista LED Beacon

Ultra low power requirement 3 mA or 6mA at 24 Vdc. Long life low profile design. Protected to IP54, supplied complete with base.

Order Code

576.501.230	Solista LED Beacon (Red)

Please Note:
This beacon should be used for supplementary indication purposes only. In this case the device is not required to be used as a Visual Alarm Device (VAD) and EN54-23 is not relevant to its classification.

Single Gang Lamp/Buzzer Units

A range of cost effective, low profile, high efficiency LED beacons with a variety of lens colour options. They are designed for use as visual indicator devices (VID).

Features

- Uses efficient LED technology
- Low profile design (44 mm)
- Twin thread mount
- Low current operation
- Maximum light intensity and dispersion
- Compatible with a wide range of systems
- IP66 rated
- Fresnel Lens
- Polycarbonate and ABS construction
- Choice of coloured lenses: Amber, Blue, Clear or Red
- Suitable for fire alarm VID applications

Order Codes

LPB24-C-T	24 Vdc LED Strobe Clear lens
LPB24-B-T	24 Vdc LED Strobe Blue lens
LPB24-A-T	24 Vdc LED Strobe Amber lens
LPB24-R-T	24 Vdc LED Strobe Red lens

Please Note:
These beacons should be used for supplementary indication purposes only. In this case the device is not required to be used as a Visual Alarm Device (VAD) and EN54-23 is not relevant to its classification.

Solista LED Beacon (Conventional Only)

A Solex 10 Candela Xenon Beacon with a red lens and a white shallow base which can be used wherever a high power xenon beacon is required. Due to the high power output and current consumption it is recommended that this device is not used with the MZX-c+ or similar small panels (an SB520 sounder booster module and PSU may be required in some cases).

Features

- High Power – 10 Candela
- Current Surge Suppression
- High Efficiency – 88 mA at 24 VDC
- 1Hz Flash Rate
- Protected to IP54
- Wide Operating Voltage (10 to 60 Vdc)
- Operating Temperature -25°C to + 70°C

Order Code

576.501.232 Solex 10 Beacon (Red lens / white base)

Please Note: This beacon should be used for supplementary indication purposes only. In this case the device is not required to be used as a Visual Alarm Device (VAD) and EN54-23 is not relevant to its classification.

Flashni Sounder / Beacon

A combined sounder and beacon which combines the features of the Roshni electronic sounder with a fully integrated Xenon beacon.

These sounders are fully compatible with all Roshni tones.

Please Note:
These beacons should be used for supplementary indication purposes only. In this case the device is not required to be used as a Visual Alarm Device (VAD) and EN54-23 is not relevant to its classification.

Features

- Combined strobe & sounder
- Matches Roshni sounders
- Weather Resistant to IP65

Order Codes

20-118	Combined Roshni sounder/strobe complete with deep base (IP65)
576.501.224	Combined Roshni Sounder/Strobe, Red Body/Red Lens complete with shallow base & tone switch
576.501.227	Combined Roshni Sounder/Strobe, Red Body/Red Lens, deep base, tone switch & separate sounder/strobe operation

Special Detection

Beam Detection
Aspirating Smoke Detection
Linear Heat Detection

Special Detection

Beam Detection

Specialist detection systems are sometimes the preferred option over point detection due to factors affecting installation, maintenance or the environment to which detectors will be exposed. MZX loops support a range of specialist detectors supplying both power and communications and providing true and seamless integration. Optical Beam detectors connect through beam detector modules and provide options for end to end beams, reflected beams where transmitters and receivers are combined and auto aligning beams where building movement is overcome by on-board alignment correction devices. Open Area Smoke Imaging Detection utilises IR and UV light to provide superior detection in spaces such as Atria, shopping malls and other large open spaces. Multiple detection paths provide a 3D image, similar to a CCTV camera ensuring optimum and reliable early warning of fire.

Aspirating Smoke Detection

Aspiration systems, like Beam detectors, connect directly to the MZX system loop through interfaces integral to the detectors. From the smaller compact systems through the mid to the high end models, integration is complete simply by connecting the two core loop to the device, saving time and cost over systems where external interfaces have to be installed. Communication with the MZX system provides both inputs and output allowing fire and fault signals to be sent to the MZX controller, and for the system to be reset remotely. Aspiration systems are widely used and preferred in challenging situations such as areas of high airflow or where condensation is present or where very early detection is required as in communications and computer rooms. The aspiration system is also ideal for providing detection in equipment cabinets.

Linear Heat Detection

Heat detection may appear limited in its application due to the time it takes to respond to most fires. The Linear versions however are extremely versatile and useful in certain special applications. MZX supports two distinct linear heat detection (LHD) systems which between them cover a diverse range of applications. Analogue LHD senses temperature variation as the resistance of the heated cable changes. The cable will recover and is re-useable providing the temperature does not exceed 120°C for excessive periods. Its uses are typically in confined or difficult areas such as storage racks, escalator housings, cable trays, conveyors and in covered car parks. MZX also supports a fibre optic LHD. The sensor will detect temperature change over several thousands of metres and is accurate in pinpointing the incident to within one metre. Laser pulses sent down the fibre are returned from the section affected by temperature change and analysed in the controller. Multiple zones can be created in a single cable with different detection criteria set for each zone. The controller is available in various formats dependent upon the topology and will interface directly with the MZX fire alarm control panel or alternatively over Modbus/TCP/IP to a SCADA system. Typical applications are tunnels and metros, conveyor systems, parking areas, refineries and power plants.

FIRERAY 5000 Multi Head Auto Aligning Infrared Optical Beam Smoke Detector

The FIRERAY® 5000 motorised, auto aligning infrared optical beam smoke detector can support two detector heads per system, thus saving on installation time and costs. This innovative system has been designed from the ground up to include pioneering technology that fully addresses the needs of the installer and user, both now and in the future.

With its industry leading optics, the FIRERAY 5000 is ideally suited for the protection of large areas where the use of traditional detection technologies would prove to be too difficult and/or costly to install. The FIRERAY 5000 combines an infrared transmitter and receiver in the same discrete unit and operates by projecting a well-defined beam to a reflective prism, which returns the beam to the receiver for analysis. Smoke in the beam path causes a drop in power, which, if below a pre-determined level, results in an alarm signal.

Getting the system operational is simplified by a number of groundbreaking features that combine to make the FIRERAY 5000 the quickest and easiest detector of its type to install. Once the detector heads are connected, using the Easifit First Fix system, an integral LASER, which is aligned along the optical path of the beam, can be activated. This allows the reflective prism to be sighted quickly and with confidence. Once the LASER has been used to coarsely align the beam, the AutOptimise beam alignment system takes over and automatically steers the beam into the optimum position.

The system can be fully customised, according to local conditions; both alarm thresholds (sensitivity) and time to Alarm/Fault can be set from the ground level System Controller.

Each detector head is independently configurable from 8m through to 100m and has its own individual fire threshold and dedicated fire / fault relay outputs. The System Controller retains one set of Fire and Fault relays that is common to all detectors that are installed.

Features

- Motorised Auto-Aligning
- Up to two Detectors per System Controller
- Controller provides fire and fault relays for each detector head
- Each Detector configurable from 8m to 100m
- Integral LASER
- Auto-Align Fast Automatic BeamAlignment
- Auto-Optimise Building Movement and Contamination Compensation
- Low Level System Controller
- 20mm Cable Gland Knockouts on System Controller
- 2-wire interface from System Controller to Detector
- Worldwide Approvals including EN54:12 and UL268
- Individual fire and fault relays for each detector

Order Codes

516.015.020	FireRay 5000 System (50m)
516.015.021	FR 5000 Detector Head (50m)
516.015.007	FireRay Reflector 100 x 100mm 4 reflectors are required for distances from 50 to 100m
5000-005	Universal Mounting Bracket
5000-006	Flat Mounting Plate for 1 to 4 Prisms
3000-201	Prism Mounting Plate for 4 Prisms
5000-007	Prism Mounting Plate for 1 Prism
5000-008	FireRay adjustable bracket

The FR5000 MultiHead is supplied with one detector head and reflector for single beam operation from 8 to 50 meters. An additional detector head can be added to the controller to enable larger or more complex areas to be protected (Subject to local codes and standards).

The Fireray 5000 when used in its low power mode can be interfaced to the MZX Fire Controller using the BDM800 module.

FIRERAY® 3000 Optical Beam Smoke Detector

Features

- Motorised auto-aligning
- Up to two detectors per system controller
- Controller provides fire & fault relays for each detector head
- Each detector configurable from 8 m to 100 m
- Integral LASER
- Low level system controller
- 20 mm cable gland knockouts on system controller
- 2-wire interface from system controller to detector
- Worldwide approvals including EN54:12 and UL268
- Individual fire and fault relays for each detector

FIRERAY® 3000 is ideal for applications where line of sight for the infra-red detection path is narrow and where the building structure uses reflective surfaces. It has been designed to be aesthetically pleasing and therefore equally suits modern architectural buildings as well as heritage sites, particularly where ornate ceilings exist.

FIRERAY® 3000 has been designed so that it can be installed by one operator, with its laser assisted alignment method combined with easy to use alignment LED's offering visual feedback. The integrated laser alignment aid can be activated at the controller or at the receiver head.

An additional detector head set (one transmitter & one receiver) can be added to the controller, separate relay contacts are provided for each of the 2 beam sets.

Order Codes

516.015.030	Fireray 3000 Optical beam detector
516.015.031	FireRay 3000 extra beam set

Mounting Accessories

	Description	Order Codes
	The Universal Mounting bracket can be used with the Fireray 5000 detector head and the 1 or 4 way prism plates to enable the detector head or prism plates to be easily mounted and adjusted when fixing to angled walls or cladding.	5000-005
	The Flat Mounting plate is a metal plate which will support a single prism or 4 prisms, the side mounting holes are compatible with Unistrut® racking systems.	5000-006
	Adjustable bracket for use with the Fireray 3000 heads or Fireray 5000 head.	3000-201
	The large prism plate will securely mount 4 prisms and is designed to be used in conjunction with the Universal Mounting Bracket (not included)	5000-007
	The small prism plate will securely mount a single prism and is designed to be used in conjunction with the Universal Mounting Bracket (not included)	5000-008

VESDA VEP Advanced Aspirating Smoke Detection

The VESDA-E VEP series of smoke detectors bring the latest and most advanced aspirating detection technology to provide very early warning combined with high levels of nuisance alarm rejection. Built on the Flair detection technology and years of application experience, VEP detectors achieve consistent performance over their lifetime via absolute calibration.

Flair is the new detection chamber that forms the core of VESDA-E VEP, providing better detection, fewer nuisance alarms, higher stability, increased longevity and particle characterisation. Direct imaging of the sampled particles using a CMOS imager combined with multiple photo-diodes allow vastly more data that can be used to derive actionable information about the observed particles using analytics.

Features

- One and four pipe models for different applications
- Flair detection technology delivers reliable very early warning in a wide range of environments with minimal nuisance alarms
- Multi stage filtration and optical protection with clean air barriers ensures lifetime detection performance
- Four alarm levels and a wide sensitivity range deliver optimum protection for the widest range of applications Intuitive LCD icon display provides instant status information for immediate response
- Flow fault thresholds per port accommodate varying airflow conditions
- Smart on-board filter retains dust count and remaining filter life for predictable maintenance
- Extensive event log (20,000 events) for event analysis and system diagnostics
- AutoLearn™ smoke and flow for reliable and rapid commissioning
- Referencing to accommodate external environmental conditions to minimise nuisance alarms
- Fully backward compatible with VLP and VESDAnet

Order Codes

VEP-A00-1P	VEP-A00-1P VESDA-E VEP aspirating smoke detector with LEDs, 1 pipe
VEP-A00-P	VEP-A00-P VESDA-E VEP aspirating smoke detector with LEDs, 4 pipe
VEP-A10-P	VEP-A10-P VESDA-E VEP aspirating smoke detector with 3.5” Display, 4 pipe

LaserFOCUS Aspirating Smoke Detection

Features

- Laser Based Absolute Smoke Detection
- Very Early Warning of a Potential Fire Incident
- Wide Sensitivity Range (0.025%-20% obs/m) (0.008 - 6.4% obs/ft)
- Detection Capabilities for smaller critical areas up to 500 m
- Dual Stage Dust Filtration
- Programmable Alarm Thresholds
- Reliable Air Flow Monitoring
- Easy User Interaction
- AutoLearn Smoke & Flow
- Pre-engineered Pipe Designs

Incorporating detection methodology derived from its VESDA predecessors - the VESDA LaserFOCUS multiple point air sampling technology works by utilising a highly effective aspirator that continually draws air into its laser detection chamber via a pipe network.

Accurate assessment of the air sample using calibrated detection and long detector life expectancy, are assured with a patented dual stage filtration process that both eliminates background 'noise' and preserves the optical integrity of the laser technology with its clean air bleed. The result of which is an unchallenged detection process able to provide reliable and consistent very early warning smoke detection performance across a diverse range of applications.

Order Codes

516.018.020	VLF-250-00 Vesda LaserFOCUS with English overlay
516.018.021	VLF-250-01 Vesda LaserFOCUS with European overlay
516.018.021.R	VLF-250-04 Vesda LaserFOCUS with Russian overlay
516.018.022	VIC-010 LaserFocus Vesda Network Card
516.018.023	VLF-500-00 Vesda LaserFOCUS with English overlay
516.018.024	VLF-500-01 Vesda LaserFOCUS with European overlay
516.018.024.R	VLF-500-04 Vesda LaserFOCUS with Russian overlay

LaserCOMPACT™ and MZX LaserCOMPACT™

Features

- Reduced size
- Absolute smoke detection
- Wide sensitivity range
- Single pipe inlet
- Simple display
- Referencing
- VESDAnet communication (VN)
- Dual stage dust filter
- Three alarm levels
- Configurable relays
- Air flow monitoring
- Optional remote display and relay capability
- Simple mounting design
- AutoLearn™
- Marine Approved Version

The LaserCOMPACT and VLC800 MZX Laser compact detector has been specifically designed to provide all the benefits of aspirating smoke detection, including very early warning, in single small areas and where space is a premium.

This has been achieved through the combination of approved LaserPLUS detection technology, dual stage filtration technology and a modified aspirator design incorporated in a smaller enclosure with simplified display.

The LaserCOMPACT is available in two versions, one that interfaces via relays only (RO) or across either the relays or VESDAnet™ (VN).

The VLC 800MZX Laser Compact is available with an in-built MZX interface to enable it to communicate directly with the MZX loop.

Order Codes

516.018.011	VLC-505-VN VESDA net Version (VN)
516.018.010	VLC-500-RO Relays Only Version (RO)
516.018.012	VLC800 MZX Addressable Vesda LaserCompact (Compatible with MZX Consys versions 2.1 and above)

LaserPLUS Standard Modular Range

Features

- Wide sensitivity range
- Laser-based light source
- 4 Configurable alarm levels
- Purpose built Aspirator
- 4 In-line Inlet pipes
- Flow sensor for each inlet pipe
- Wide range DC power
- Low-cost maintenance
- Dual stage filter
- Easy access to filter cartridge
- 7 Software configurable relays
- Recessed mounting
- Multiple exhausts

The detector assembly contains the laser detection chamber, high efficiency aspirator, monitored filter cartridge, control electronics and relay interface. The detector assembly can be used as a "distributed" system, with the display, programmer and VESDAnet socket modules mounted in a remote location.

Alternatively, the detector assembly can be configured as a "self-contained" system by replacing the detector's blank panels with the display and/or programming modules.

Order Codes

	Description	Order Codes
	VLP-012 LaserPLUS Detector, programmer and display	516.018.001
	VLP-002 LaserPLUS Detector and display	516.018.002

LaserPLUS Scanners

Features

- Individual pipe annunciation
- Adaptive scan threshold
- Wide sensitivity range (0.005 to 20% obs/m)
- Laser based light source
- Configurable alarm levels
- Purpose built Aspirator
- 4 In-Line inlet pipes
- Flow sensor for each pipe inlet
- Low-cost maintenance
- Dual stage filter
- Easy access to filter cartridge
- Recessed mounting

VESDA LaserPLUS is also available in a Scanner configuration, which allows the system to distinguish and identify the pipe carrying smoke, while sampling multiple sectors.

The VESDA LaserPLUS will continue to sample from all sectors to monitor the fire growth and maintain full protection.

Order Codes

	Description	Order Codes
	VLS-214 FD7 Scanner, programmer and display with 7 relays VLS-314 FD12 Scanner, programmer and display with 12 relays	516.018.004 516.018.007
	VLS-600 FD7 Scanner with Fire OK LED	516.018.016
	VLS-204 FD7 Scanner and display with 7 relays	516.018.005

Remote Displays and Modules

Features

- Four alarm levels (Alert/Action, Fire 1 & Fire 2)
- 20 segment vertical bar graph
- Alarm threshold indicators (Alert, Action & Fire 1)
- Audio and visual indication
- Alarm indicators
- Informative fault indicators
- Multi-mode numeric display(defaults to smoke obscuration)
- Acknowledged push-button presses
- Multiple language supported
- Addressable to any detector

A display module monitors the VESDA LaserPLUS detector. It reports a visual representation of smoke levels, and all alarm and fault conditions. The internal sounder warns personnel in the local area that an alarm threshold has been reached, or a fault has occurred.

It has a 20 segment vertical bar graph, a 2-digit numerical display, an audible sounder and clear alarm and fault indicators. It also has 4 push buttons to control the detector and the mode of the display.

Displays can be located at a convenient location - either within the detector module, or remotely on the VESDAnet. For monitoring convenience, multiple displays can be associated with a single detector.

	Description	Order Codes
	VRT-700 Remote scanner display - no relays	516.018.107
	VRT-200 Remote display including 7 relays VRT-J00 Compact Display c/w 7 relays	516.018.102 516.018.119
	VRT-300 Remote VESDAnet socket	516.018.103
	VRT-100 Remote programmer	516.018.101

LaserPLUS Standard 19 Inch Sub-Rack Remote Display Assemblies

The 19" sub-rack is available as a mounting option, with 4 mounting slots for display or programming modules.

Dimensions: 128H x 482W x 120D mm

Order Codes

516.018.201	VSR-2000 19" Sub-rack with 1 detector display and 3 blanks
516.018.204	VSR-2221 19" Sub-rack with 3 detector displays and programmer

LaserPLUS Components for Ordering Custom Built Remote Display Sub-racks

Sub-rack configurations other than those available as standard can be supplied as custom built units. The sub-rack and cost of assembly are included in the VSR-CUSTOM. The configuration of the custom built unit must be specified at time of ordering (e.g. 2 x VSU-0 and 2 x VSU-2 configured as VSR-0022)

Note: The order of the numbers (e.g. 0022) indicates the order in which the sub-units will be mounted in the sub-rack housing when looking from the front of the unit - from left to right.

Order Codes

516.018.260	VSU-0 Blank Sub-unit
516.018.261	VSU-1 Programmer sub-unit
516.018.262	VSU-2 Detector display sub-unit plus 7 relays
516.018.268	VSU-8 Scanner display sub-unit with 12 relays
516.018.219	VSU-J Compact display sub-unit plus 7 relays
516.018.210	VSR-CUSTOM Custom sub-rack housing includes cost of custom building 4 VSU sub-rack units

LaserPLUS Standard 19 Inch Rack Remote Display Assemblies

Standard rack enclosure to fit 2 sub-rack assemblies.

Dimensions: 300H x 400W x 140D mm

Order Code

516.018.303	020-050 IP66 Enclosure

LaserPLUS Ancillaries & Power Supply Unit

A variety of other ancillaries are available. Configuration software is available from the Xtralis website www.vision-fs.com.

Order Codes

516.018.407	VESDA VPS-220 2 A 24 VDC PSU
516.018.410	VESDA VPS-250-E 2 A 24 VDC PSU

LaserPLUS Spares

The following common VESDA LaserPLUS spares are kept in stock by Tyco Fire Protection Products. Other spares can be supplied if required.

Order Codes

516.018.502	VSP-004 Scanner display (spare)
516.018.505	VSP-019 Filter cover door (spare)
516.018.506	VSP-006 Spare detector chassis and manifold
516.018.508	VSP-008 Spare remote termination card 7 relays
516.018.514	VSP-014 Spare header termination card 7 relays
516.018.515	VSP-015 Spare aspirator fan
516.018.504	VSP-005 Filter cartridge (spare)

VESDA® VLI

Order Codes

VLI-880	VESDA VLI
VLI-885	VESDA VLI with VESDAnet1
VRT-Q00	VESDA VLI Remote Display 7 Relays
VRT-T00	VESDA VLI Remote Display No Relays

The VESDA VLI by Xtralis is an industry first early warning aspirating smoke detection (ASD) system, designed to protect industrial applications and harsh environments of up to 2000 m^2.

Long life, intelligent, fail-safe technology With an advanced clean-air barrier for optics protection allowing the use of absolute detection and a long detection chamber life without the need for recalibration.

The Intelligent Filter:

- reduces the level of pollution in the air sample before it enters the detection chamber, which dramatically extends the operational life of the detector in harsh and polluted environments.
- is fully monitored, providing consistent sensitivity over the entire operational life of the detector.

ICAM IAS800 Air Sampling Smoke Detection

The ICAM IAS800 Air Sampling Smoke Detection System provides a flexible solution to meet the unique needs of numerous applications including industrial spaces such as cable tunnels, tamper proof and unobtrusive requirements for special accommodation, or can simply be used to replace spot (point) detectors in office environments.

The IAS800 system actively draws air from the protected area through sampling holes in a pipe network. Sampled air is then filtered before being analyzed by upto two MZX Technology detectors.

The IAS800 system is available in three configurations:

- IAS800 twin inlet pipe configuration which can be fitted with two detectors for monitoring one or two pipe runs.
- IAS801 single inlet pipe configuration which can be fitted with one detector.
- IAS802 twin inlet pipe configuration which can be fitted with two detectors for monitoring one or two separate pipe runs with independant fault outputs.

The system utilises a high performance aspirator and software configurable flow monitoring circuitry. The air flow level is displayed on a ten element bar graph that can be adjusted for high and low flow thresholds, and flow failure is reported as a device fault via upto two MZX Technology MIM800 addressable modules.

Applications:
Ideal for areas where access is restricted, harsh environments and areas where a point detector would be damaged. Such as:

- Lift Shafts
- Floor / Ceiling Voids
- Cabinet Protection
- Conveyor Tunnels
- Hose Down Areas
- Stables
- Prison Cells
- Areas with Low Ceilings

Features

- Powerful fan
- Upto two x 50 m pipe runs
- Pipes can be individually monitored for air flow with LED bar graph
- MZX Loop and 24 Vdc connections
- Fault monitored via the MZX Loop
- IP65 enclosure
- Field serviceable air filters
- Uses standard 25 mm Vesda pipe & fittings

Detectors sold separately.

Order Codes

516.016.301	ICAM IAS800 Aspirated Smoke Dual Detector common fault monitor
516.016.303	ICAM Course Filter (PK10)
516.016.304	ICAM IAS801 Aspirated Smoke Single Detector common fault monitor
516.016.305	ICAM IAS802 Aspirated Smoke Dual Detector dual fault monitor
516.016.306	ICAM In-Line Filter Housing

VESDA Pipe, Fittings and Test Equipment

Features

- Toughness and durability
- Chemical resistance
- Easy to joint
- Low Friction
- Wide temperature range
- Lightweight
- Red colour for easy identification

Aspirating Pipe & Fittings

	Description	Order Codes
	**Pipe 25 mm diameter** VESDA aspirating pipe, printed along its length on opposite side at 450 mm intervals. 3 m length pipe. Order in multiples of 10.	516.018.901
	**Socket 25 mm** Straight socket for 25 mm pipe. Order in multiples of 10.	516.018.902
	**Socket union 25 mm** Socket union to facilitate servicing of pipework. Order in multiples of 1.	516.018.903
	**Socket Adaptor 25 mm to 3/4"** Socket adaptor, imperial to metric, to extend existing systems. Order in multiples of 5.	516.018.909
	**Bend 25 mm** 90 degree Long Radius bend. Order in multiples of 5.	516.018.904
	**Elbow 25 mm** 45 deg elbow. Order in multiples of 5.	516.018.905
	**End cap 25 mm.** Order in multiples of 5.	516.018.906
	**Equal Tee 25mm.** Order in multiples of 5.	516.018.907
	**In-Line Filter** Suitable for all Vesda Aspirating Smoke Detectors.	516.018.925

Aspirating Pipe & Fittings

	Description	Order Codes
	**Filter Elements** Dual density replaceable filter elements for use with In-Line Filter (Pack of 4).	516.018.926
	**Water Condenser** Water Condenser for use with Vesda ASD Systems	516.018.927
	**Pipe Clip 25 mm.** Order in multiples of 10.	516.018.908
	**Solvent Cement** Solvent Cement (0.25 Litre Tin)	516.018.910
	**Capillary Tube Conical Sample Point Assembly** 25 mm socket adaptor + 2 m capillary tube (tube colour - red).	516.018.911
	**Capillary Tube Flush Sample Point Assembly** 25 mm socket adaptor + 2 m capillary tube (tube colour - red)	516.018.912
	**Capillary Tube 10 mm** 10 mm o/d x 30m length (tube colour - red).	516.018.915
	**Pipe Cutter**	516.018.918
	**Pipe Ties (Red)** Order in multiples of 100.	516.018.920
	**Sampling Point Label (1 Reel)** Order in multiples of 100.	517.017.005
	**Pipe Label (1 Reel)** Order in multiples of 100.	517.017.006

VESDA-E VEU Aspirating Smoke Detection

The VEU series of aspirating smoke detectors are the premium detector of the VESDA-E range.

An Ultra-wide sensitivity range; 15 times greater than VESDA VLP, and provision for more sampling holes provide an increased coverage in high airflow applications by up to 40%. Considerably longer linear pipe runs and extended branched pipe network configurations cater perfectly to applications with higher ceilings providing an increased coverage by up to 80% whilst allowing convenient detector mounting for ease of service and maintenance. A range of revolutionary new features provide unsurpassed detection performance, flexibility, field programmability, connectivity and reduced total cost of ownership.

Installation, Commissioning and Operation

VEU features a robust IP40-rated enclosure and is equipped with a powerful aspirator that provides a total pipe length of 800 m. It is fully supported by the ASPIRE-E and Xtralis VSC software applications which facilitate ease of pipe network design, system commissioning and maintenance together with compatibility with existing VESDA installations.

Colour touch screen display

The VEU-A10 detector features a 3.5" colour touch screen display which provides a range of status information including smoke level as well as trouble conditions. A simple navigation system allows the user to view all the status information.

VESDAnet™

VESDA devices communicate on VESDAnet which provides a robust bi-directional communication network allowing continued redundant operation even during single point wiring failures. VESDAnet enables primary reporting, centralized configuration, control, maintenance and monitoring.

Ethernet and WiFi connectivity

VESDA-E detectors offer Ethernet and WiFi connectivity as standard features. The detector can be added to a corporate network, allowing WiFi enabled tablet devices and laptops installed with Xtralis configuration software to connect wirelessly to the detector via the network.

Features

- Short wavelength laser based detection
- Inherent absolute calibration
- Advanced detection technology equivalent to hundreds of thousands of sensors
- Clean air barrier for optics protection
- Most robust contamination resistance
- Ultra-wide sensitivity range
- Flow fault thresholds configurable per port
- Long-life, easy-to-replace filter
- Quiet operation
- LEDs for alarm and fault signalling
- 3.5" colour touch screen for status review
- Advanced remote diagnostics
- Area coverage up to 2,000 m²
- Up to four inlet pipes
- Total pipe length of 800 m
- Referencing
- AutoLearn™ Smoke and Flow
- Seven programmable relays
- Two GPIs, monitored and unmonitored
- Ultrasonic flow sensing
- Xtralis VSC, VSM4 and ASPIRE-E PC software support
- IP 40 enclosure (not UL tested)
- Easy mounting with optional steel support bracket
- Field replaceable aspirator, sampling module, filter and detection chamber
- VESDAnet networking
- Ethernet 100 base T
- WiFi, IEEE488.11/b/g/n
- Local host-mode USB port
- Easy cable termination access
- Event Log (20,000 events)

Backward Compatibility

VESDA-E detectors occupy the same mounting footprint, pipe, conduit and electrical connector positioning as VESDA VLP and VLS detectors hence providing complete backwards compatibility.

How it works

Air is continually drawn from the protected area through the air sampling pipe network and into the detector by a high efficiency aspirator. The air sampling pipe network can contain up to four pipes. The air from each sampling pipe passes through an airflow sensor and then a sample of the air is drawn into the smoke detection chamber via the sampling module, after first passing through the filter.

An additional filter provides clean air to protect the optical surfaces inside the detection chamber from contamination. The Flair™ detection chamber uses the equivalent of 330,000 sensors and sophisticated algorithms for detection and particle classification.

If the detected smoke is higher than the set alarm thresholds it is reported as an Alert, Action, Fire1 or Fire2 alarm condition.

Air is exhausted from the detector and may be vented back into the protected area.

Alarms can be signalled via Relays and VESDAnet. Ethernet and WiFi can be used for configuration and secondary monitoring, and a USB interface is provided for initial setup. A series of LEDs display Alarm, Trouble, Disable and detector power on status. A button allows the user to Reset or Disable the detector. In addition, an optional 3.5" LCD displays detector status including smoke level and a smoke level bar graph, alarm thresholds, trouble status, % airflow level, normalization status and filter life used.

Order Codes

VEU-A00	VESDA-E VEU with LED's
VEU-A10	VESDA-E VEU with 3.5" Display
VSP-960	Mounting bracket (optional) Spare Parts
VSP-962	VESDA-E Filter
VSP-962-20	VESDA-E Filter - 20 pieces
VSP-963	VESDA-E Aspirator
VSP-964	VESDA-E Smoke Detection Chamber
VSP-965	VESDA-E Sampling Module

Open-Area Smoke Imaging Detection (OSID)

Open-area Smoke Imaging Detection (OSID) by Xtralis is a new innovation in projected beam smoke detection technology. By using advanced dual wavelength projected beams and optical imaging technology, OSID provides a low-cost, reliable and easy to install solution that overcomes typical beam detection issues such as false alarm incidents and alignment difficulties.

Unique Detection Technology
The OSID system measures the level of smoke entering beams of light projected over an area of protection. A single OSID Imager can detect up to seven Emitters to provide a wide coverage area.

Simple Installation and Maintenance
The OSID system consists of up to seven Emitters, for the 90° Imager unit, located along the perimeter of the protected area, and an Imager mounted opposite. Each component can be mounted directly to the surface or can be secured with the supplied mounting brackets. Battery powered Emitters with up to five years battery life are also available to reduce installation time and cost.

Features

- Max detection range of 150 metres for the OSI-10
- Status LEDs for Fire, Fault and Power
- High false alarm immunity
- Dust and intrusive solid object rejection
- Easy alignment with large adjustment and viewing angles
- No need for precise alignment
- Tolerant of alignment drift
- Automatic commisioning in under ten minutes
- Simple DIP switch configuration
- Dual wavelength LED-based smoke detection
- Simple and easy maintenance requirements
- Conventional alarm interface for straightforward fire system integration
- Three selectable alarm thresholds

Order Codes

OSI-10	Imager 7° coverage
OSI-90	Imager 80° coverage
OSE-SP-01	Emitter Standard Power
OSE-SPW	Emitter Standard Power, Wired
OSE-HPW	Emitter High Power, Wired
OSID-INST	OSID Installation Kit
VKT-301	OSID Demo Kit (2 x OSE-SPW + 1 x OSI-90 + 1 x OSID-INST + Stand and Carry Case)
OSID-WG	Wire Guard for OSID Imager & Emitter
OSID-EHI	OSID Imager Environmental Housing
OSID-EHE	OSID Emitter Environmental Housing
OSP-001	OSID USB to FTDI Serial PC Interface Cable

ProReact Analogue Heat Detector

ProReact Analogue Heat Detector system consists of a control module and four core detection cable designed to interface to a conventional fire alarm panel or DIM800 or DDM800 addressable module. The control module monitors the resistance of specially doped polymers within the sensor cable which change as a function of temperature. An abnormal change in resistance along the detection cable triggers either a Pre- Alarm or Alarm on the interface module.

The system is intended to simplify system design and be uncomplicated and straightforward to install. Commissioning of the controller can be done using a laptop computer or through an optional built-in self-programming module. The sensor cable has been designed to be physically and electronically rugged to suite a range of environments with options for PVC, Polypropylene or Nylon coatings or a strong stainless steel braid.

The ProReact technology offers an alternative solution to heat protection in a wide range of applications and industries, from power generation to oil and gas.

Features

- Alarm & Pre-Alarm temperature ranges from 54-100°C
- Programmable on-site adjustment of sensitivity.
- Up to 500 m continuous length
- Alarm hot-spot length equal to 3% of zone length
- Separate Alarm and Pre-alarm volt-free outputs
- No nomograms or other scales to interpret
- Simple, 3-Step Installation:
- Ambient temperature compensation maintains alarm temperature accuracy
- Self-Restorable after fire event up to 125°C
- Flexible cable for easy mechanical installation
- Reliable signalling of open and short circuit conditions
- Extrusion and Braiding options to satisfy both mechanical and environmental conditions

Order Codes

516.016.019	ProReact Analogue Cable PVC order in multiples of 200
516.016.020	ProReact Analogue Cable PVC order in multiples of 500
516.016.021	ProReact Analogue Cable with additional Polypropylene coating order in multiples of 200
516.016.022	ProReact Analogue Cable Polypropylene coating order in multiples of 500
516.016.023	ProReact Analogue Cable Nylon coating order in multiples of 200
516.016.024	ProReact Analogue Cable Nylon coating order in multiples of 500
516.016.025	ProReact Analogue Cable Stainless Steel Braid order in multiples of 200
516.016.026	ProReact Analogue Cable Stainless Steel Braid order in multiples of 500
Control Units	
516.016.016	ProReact ProReact Analogue Controller with display including EOL unit
516.016.017	ProReact ProReact Analogue Controller including EOL unit
516.016.018	End of line unit (Spare)

Linear Heat Detection Non-Combustible Cable Supports

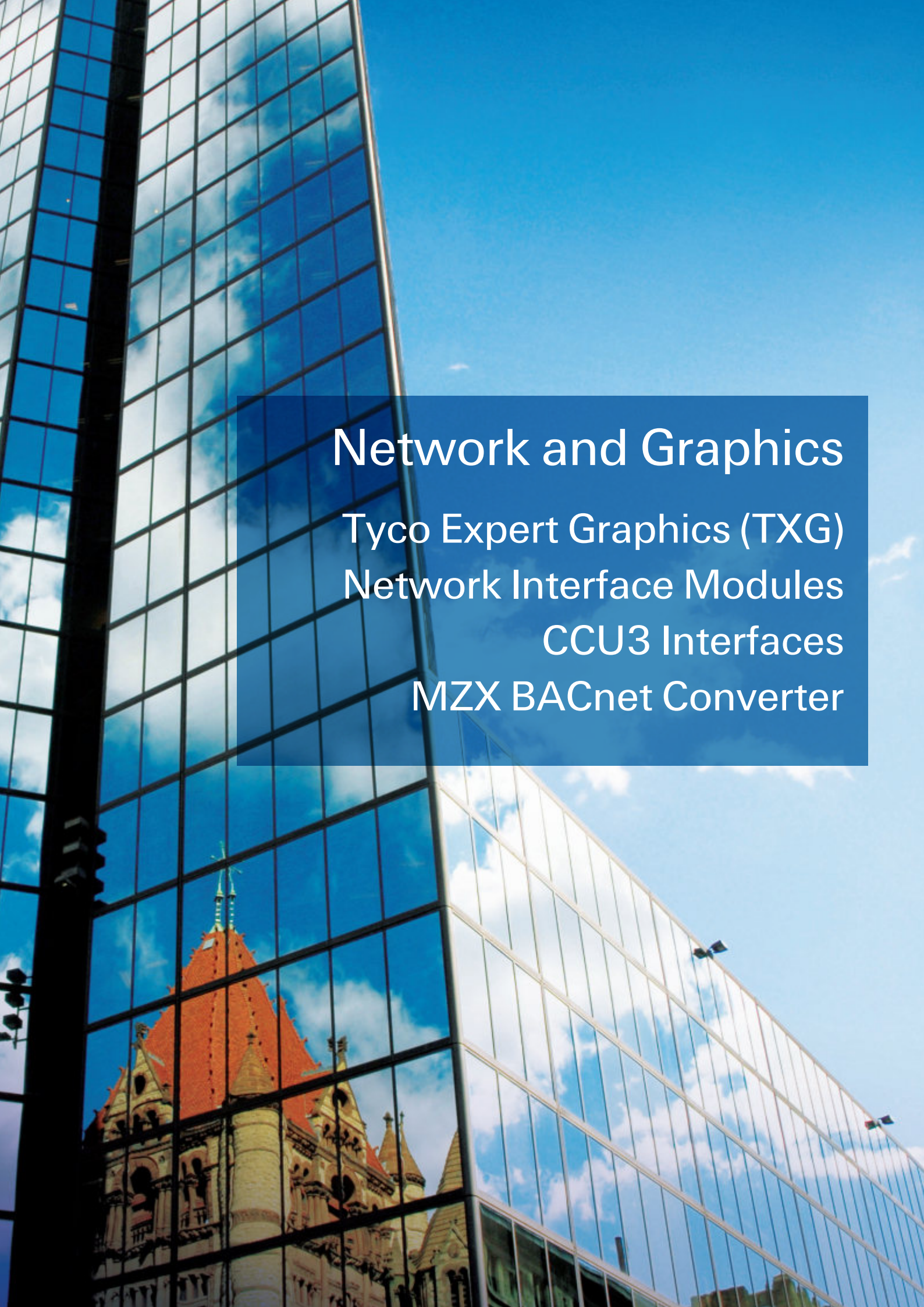





Installation standards such as BS5839 part 1 specify non-combustible cable supports and this requirement extends to linear heat sensor cable. To satisfy this requirement the ProReact Analogue Heat Detector range includes a range of fixings in either Zintec or Stainless Steel and compatible cable ties.

Order Codes

516.016.220	Dual Height L cable clip 100 mm Zintec Standard L Clip 50 mm Zintec
516.016.221	Channel bracket for attaching LHD cable to flat surface Zintec
516.016.222	V-clip for cable trays Spring Stainless Steel
516.016.223	L clip with edge clip Zintec
516.016.224	Clip extension for use with other clips where required Zintec
516.016.225	Dual Height L cable clip 100 mm Stainless Steel
516.016.230	Standard L Clip 50 mm Stainless Steel
516.016.231	Channel bracket for attaching LHD cable to flat surface Stainless Steel
516.016.232	L clip with edge clip Stainless Steel
516.016.234	Clip extension for use with other clips where required Stainless Steel
516.016.235	110°C indoor/outdoor cable tie UV &
516.016.236	Heat Stabilised Pack of 100
516.016.237	170°C indoor tie wrap Not UV stabilised Pack of 100
516.016.238	170°C indoor/outdoor stainless steel tie wrap Pack of 100



Network and Graphics

Tyco Expert Graphics (TXG)
Network Interface Modules
CCU3 Interfaces
MZX BACnet Converter

Network & Graphics

MZX technology offers a range of panels from a single loop to 32 loops. Each panel can address upto four thousand addresses and is configurable up to 240 zones. Panels can be easily networked by adding a network card. An MZX network can be extended up to 99 panels with panels interacting with each other where required. The network is a true peer to peer network which remains unaffected by a single node failure. Furthermore failure of any panel's main processor will not inhibit transmission of any fire alarm or fault signal from that panel across the network to a designated panel's zonal display. Networks can be created using a wide range of cable types or fibre optics.

The network will support the Tyco Expert Graphics (TXG), Emergency Management System and Graphical User Interface. The system provides annunciation, status display and control for the MZX network either to a single or multiple stations. Multiple stations are connected as true clients of the dedicated primary station, (server) and can be on the clients own network if desired. TXG is windows based system which uses a combination of symbols, floor plans, pictures, text, voice messages and video input to display events and create actions for the operator. TXG is user friendly and simplifies the operator's actions, saving valuable time in an emergency.

Third Party Interfaces

When Fire alarm systems have to be interfaced to a third party's system such as BMS, there are no specials with MZX technology. The MZX to BACnet interface provides high level communication between the fire alarm and building automation systems. The BACnet client will display both point and zone events together with various system statuses and analogue detector values. The system also supports commands thereby providing a seamless bidirectional interface.

A MODBUS interface also exists for the MZX network allowing connection via a number of protocols to the third party system. Multiple units can be interconnected within a single system. The module has on-board relays which can be configured as inputs to the MZX Technology system plus a number of supervised inputs whose status can be read from the MODBUS map.

Tyco Expert Graphics (TXG)

Tyco Expert Graphics is a new client/server emergency management system and fire detection graphical user interface.

TXG is based on a Tyco graphical alarm monitoring system that has been installed on hundreds of large fire detection and alarm monitoring systems around the world and offers the ability to integrate all Fire Panels with MZX technology, such as PROFILE and MZX series with improved functionalites

Tyco Expert Graphics provides annunciation, status display, and control for various fire detection and alarm systems including MZX networks incorporating the latest MZX Technology™ fire detection systems. It also supports the predecessor Minerva fire detection systems thus ensuring that future updates from Minerva to MZX Technology can be accommodated. Additional support is provided for Simplex 4100 range, Zetfas and Fast2000\ PBS (Token ring format).

TXG is a Microsoft Windows® based graphical interface with a high resolution colour display. Responsive touch-screen (optional) buttons with realistic icons and keyboard provide control switches specific to the operation being performed.Utilising a combination of symbols, floor plans, pictures, text, voice messages and video input, TXG displays the precise location and gives instructions on what emergency action should be taken.

The display can be configured to track detector inputs by changing the colour of areas in response to changes in analogue value. A detailed map of the area affected can be printed automatically for use by personnel responding to an emergency. Prompt response to a fire emergency, with the correct action, provides the opportunity to reduce financial loss and greatly improves safety.

Much of the work involved in configuring TXG has been simplified through the automatic import of panel configurations, AutoCAD® graphics, including data points, and the ability to use a wide range of input data file types including GIF, JPG, bitmap, Vector and WAV files.

Features

- Provides annunciation, status display, and control in both normal and emergency situations
- Developed specifically to provide monitoring and control of fire protection life safety systems
- Supports a range of fire detection systems:
- PROFILE and MZX, Simplex 4100 range 4100, 4120,4020,4100U with upgrade paths to 2120 Zettler Zetfas, Wormald PBS16, Tyco Fast 2000
- Multiple workstations can be configured for specific functions or redundant operation
- Single monitor or two monitor (text and graphics) support at each workstation

Additional Features:

- Link up with I.P. CCTV camera systems, no additional wiring, reduced installation cost for a fully integrated fire\CCTV system
- Compatible with Flamevision® FV300 array based IR flame detectors with built in CCTV
- MZX Hotspot, chromatic analogue display, Programmable tracking of analogue values, Changes display colour in response to changes in analogue value from a selected number of MZX devices
- Trending diagrams of analogue values helps reduce maintenance time and cost
- Export analogue values to Excel for in depth analysis
- Audio descriptions of screens can be played when they are displayed or played when an event occurs
- High level user interface allows end user to make changes to point attributes and layout further reducing lifetime cost of ownership
- Centralised security administration means that operator accounts are administered through the TXG client's common database
- Mouse, keyboard or touch-screen control with full multimedia compatibility
- Dual language switching
- The ability to display live video when specific predefined alarm conditions occur
- Easy to configure and set-up. No special networking or PC training required
- Facilities and maintenance management report and analysis tools are available

System maintenance can be carried out via the high level user interface with the ability to edit the position and attributes of point icons as well as make changes to drawing layouts. As well as simplifying maintenance, being a true client server application means that any number of on-site or off-site workstations can interrogate the database with pre-defined security levels to facilitate any required combination of access and control.

The IP Video feature allows real-time images of the area at risk to be displayed in the event of an alarm or fault. Video capture of the affected area appears on the screen automatically, allowing the severity of the situation to be assessed quickly and the appropriate executive action to be taken.

For less serious incidents, expensive and unnecessary plant shut downs can be avoided. In more critical situations, accurate information can be quickly and efficiently communicated to the response team. Icons representing the devices being monitored will change colour dependant on status (Alarm, normal, fault, isolate etc).

Selected areas can be highlighted using the chromatic analogue display feature, MZX HOTSPOT. As the analogue value of a monitored point changes the chromatic analogue display will change the highlight colour through a pre-defined range.

For example a heat detector assigned MZX HOTSPOT could transit the highlight from blue to red. The number of chromatic steps is dependent on the resolution of the graphics card used, 16, 24 or 32 bits

Notification by email

Events, whether they are real or false alarms are handled most efficiently when information can be quickly and accurately communicated. TXG allows users to set up email groups and notification texts linked to predetermined events. These are automatically transmitted ensuring that the appropriate resource is deployed.

Additional features and functions

- Response buttons with configurable icons or text provide control switches specific to any operation being performed
- Uses a combination of symbols, floor plans, pictures, text and video to communicate events
- Standard MZX and Minerva symbol libraries supplied
- Instructions given on emergency action to be taken
- Maps and instructions printed to assist response teams
- History logging recallable or printable by event, dates, device, or a host of other available filters
- An advanced filter allows history reports to be specifically limited to a particular range or date
- Commands to control outputs from the Graphical User Interface
- Events can be accepted individually or can be "auto-accept"
- Supports all standard PC image file types (i.e. GIF, JPG, BMP), AutoCAD® & Vector file types

Availability and order process

TXG can be downloaded from the tycoemea.com website and can be used with a time restriction for demonstration or training purposes. TXG can also be ordered from our Letchworth and Echt distribution centres.

Customers can fax or e-Mail an order form which details the software options required, to customer service at Letchworth. Original order forms can be obtained from http://www.ZettlerFire.com/. This form will allow customer service to prepare and allocate a license code that will activate the required features. Customers will also be required to place an order on JDE for each part number on the form.

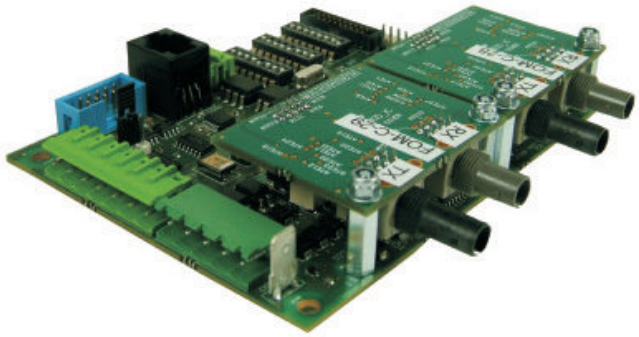
A media pack containing CD with license number, dongle, multi language manuals on CD and original order form will be dispatched to the customer.

On receipt, the software can be loaded and the license number entered to make available the requested software features.

Order Codes

08.040.100	TXG USB Server Dongle/License/ Software
508.040.001	TXG001-Single Client with 1 panel (Requires TXG USB)
508.040.002	TXG004-Single Client with 2 to 4 panels (Requires TXG USB and TXG001)
508.040.003	TXG010-Single Client with 5 to 10 panels (Requires TXG USB, TXG001 and TXG004)
508.040.004	TXG020-Single Client with 11 to 20 panels (RequiresTXG USB, TXG001, TXG004 and TXG010)
508.040.005	TXG999-Single Client with 21 or above panels (Requires TXG USB, TXG001, TXG004 TXG010 and TXG020)
508.040.011	TXG-C Additional Client license
508.040.021	TXG-MIN80 Minerva driver license
508.040.025	TXG-OPC - OPC Alarm / Event & Data Access Server Licence
508.040.027	TXG-CPP - SIMPLEX CPP driver
508.040.033	TXG-PBS/FAST2000 DRIVER

TLI800EN Network Interface Module and FOM800 Fibre Optic Module



Inter-controller Network

The use of the MZX Technology Network allows the fragmentation of a number of fire controllers to be drawn into a network system. Because every installation is different, the MZX Technology Network has been designed to be highly flexible, allowing for a wide range of different systems applications. With a large network system the amount of data and information passing between fire controllers can become high during an emergency condition. The MZX Technology Network communication protocol has been specifically designed with this in mind and ensures that each event message passed around the network is acknowledged by the receiving controller in the fastest possible time.

Operation

The network is totally flexible and enables from 2 to 99 fire controllers to be seamlessly linked together.

System Overview

The MZX Net communications network comprises a collection of network interface modules and peripheral equipment that together form a fault resistant, and flexible peer-to-peer network for the MZX Digital addressable fire systems controllers.

Features

- Allows MZX Technology Fire Controllers to be "seamlessly" networked together
- Dual ARM 7 RISC processors
- Support for Emergency Mode Indication
- True peer-to-peer communications; no host or master controller required
- Highly resilient, node failure open and short circuit does not affect remaining network
- Approved to EN54-13 and EN54-2
- Up to 99 controllers may be used on the network
- Wide range of cable topography supported
- Network can use a variety of cable types with up to 2500m between nodes (cable dependent), 1200m using standard 1.5 mm MICC cable
- FOM800 Plug on fibre optic module provides up to 5000m between nodes using 62.5/125 multimode fibres
- Easy to install and programme
- Simple to operate

Order Codes

557.202.080	TLI800EN Network Card and cable
557.202.081	FOM800 Fibre Optic Module
557.200.039	TLI800EN Network Interface in Housing c/w PSU
557.180.219	PC to TLI800 EN Network Card connection Cable

Master operating stations use the standard MZX or PROFILE Fire Controller hardware. In this application, the controller changes its personality; and enables additional information from each controller on the network to be displayed.

CCU3 Interface Module

The CCU3/C-MZXMB provides a MODBUS interface to a number of MZX panels on an MZXNet. CCU/IO boards may also be connected to provide general I/O devices accessed through the MODBUS interface.

The CCU3/C-MZXMB connects to panels on the MZXNet via a TLI800EN (TPI) interface card using RS232 (PL2 socket). It connects to MODBUS via either an RS232, RS485 (default) or RS422 connection. Another port allows up to 8 CCU/IO boards to be connected. Each CCU/IO has 8 relay outputs that can be used as inputs to the panel. These contacts are controlled via WRITE commands to the MODBUS map. Each CCU/IO also has 8 supervised inputs whose status can be read from the MODBUS map.

Order Code

557.202.046	MZX CCU3/C-MZXMB MZX to MOD Bus Interface

MZX BACNet Interface

BACnet is an industry standard communications protocol for building automation and control networks. It was designed to allow communication of building automation and control systems for applications such as heating, ventilating and air-conditioning control, lighting control, access control, and fire detection systems and their associated equipment. The BACnet protocol provides mechanisms for computerised building automation devices to exchange information, regardless of the particular building service they perform.

Features

- High level interface to building automation systems
- Meets interfacing requirements for large integrated projects
- Low cost solution – no need for expensive bespoke integration solutions
- Increase sales opportunities in the integrated solutions market

Order Code

557.202.135	BACnet Converter for MZX

Hazardous Area Protection

Flame Detectors
Addressable Protection
Conventional Protection
Sounders & Beacons
MZX SensorLaser Plus

Hazardous Area Protection

MZX systems include the most extensive range of products which are suitable for and approved for use in all classes of hazardous areas. The range extends from intrinsically safe detectors for use on conventional systems to flameproof and intrinsically safe flame detectors for use in the most demanding environments, both on and off shore. A complete range of barriers, housings, call points, ancillary modules and sounders is provided to enable a complete system to be supplied. Systes 620 conventional and system 800 addressable solutions include detailed design guides ensuring the system designer has all the tools to implement a safe and effective solution. ATEX and IECEx approvals are in most cases for both dust and gas hazards. In addition to individual component approvals both conventional and addressable systems have systems certification.

Flame Detectors

MZX Infra-Red Flame detection offers unrivalled performance where hydrocarbon based fires exists. IR detection is less susceptible to radiation inhibitors than is UV, being able to detect through oil mist, smoke and vapour, all of which can be commonly associated with fires involving fuels. They are also less prone to false alarms from background radiation sources. IR sensors are tuned to a bandwidth typical of the radiation emitted from Carbon Dioxide which is present in hydrocarbon fires. Single channel detectors are set to a fixed frequency and then rely on flame flicker, whereas triple channel detectors can monitor frequencies above and below the fire threshold filtering background radiation from non-fire sources. Array based IR detectors use 256 sensors making them sensitive yet extremely stable. The array can be configured to ignore hot spots such as exhausts, flues and flame stacks. The detector in addition to all other approvals is IEC61508, (SIL2) approved. Some models can also incorporate a CCTV camera within the detector housing, providing real time images of the incident. All of the above detector types are available within the MZX range covering all categories of risks.

Addressable Detection

800 series Addressable detectors are intrinsically safe and use galvanic isolators when connected to the MZX loop. Galvanic isolators do not require a high integrity earth connection as the primary and secondary circuits are not directly interconnected. This offers the installer a much easier and less costly installation and removes the need for regular checking to ensure continuous earth continuity. Available detection technologies are Multisensors, Smoke/Heat detector, Carbon Monoxide/ Heat detector, Ionisation detector ,Heat detector and the single channel IR, point detector. Each sensor offers flexibility in programming and offers various modes of operation which can be selected to suit the risk. All detectors connect to a common intrinsically safe approved base and have ATEX and IECEx approval for use in both gas and dust atmospheres.

Callpoints

Both indoor and outdoor Call points are available for use in hazardous areas. Alternatively suitable none addressable devices can be connected to the MZX loop via an addressable interface. Manual call points are themselves simple devices and can be connected via a galvanic isolator, or be constructed so as to be incapable of causing ignition, or be enclosed within a flameproof enclosure. In addition to the type of protection offered the device is also rated for use in a particular (gas group) atmosphere and temperature rated so as never to exceed the ignition temperature of any gas or dust /air mixture present. MZX offers the widest range of call points and interfaces to meet the required standard whilst minimising the amount of equipment to be installed.

Sounders, Beacons and Accessories

Installing sounders and beacons into hazardous areas requires careful consideration and design experience. Whilst electrical safety is still paramount so is the need to create a distinct and audible signal. Within the MZX range there are both sounders and beacons which are either intrinsically safe, when used with an appropriate safety barrier, or flameproof in their construction. Sounders and beacons offer a range of outputs to suit all environments which when connected through the appropriate module/ driver will minimise the risk to the designer and ensure a safe and adequate system is provided. A number of I/O units mounted within flameproof enclosures complete this very comprehensive range of hazardous area equipment.

Conventional Detection

System 620 provides a range of conventional detectors very similar to the 800 series addressable. Conventional detection circuits also require a safety barrier, galvanic, (for new systems) or shunt diode (for extending some older systems), in order to meet safety requirements. Conventional detectors can be connected to an appropriate approved control panel or an interface and onto an MZX loop, within an adjacent safe area. Within the product range are Multisensors, Smoke/ Heat detector, Carbon Monoxide/Heat detector, Heat detector and the single channel IR, point detector. All detectors connect to a common IS labelled base and have ATEX and IECEx approval for use in both gas and dust atmospheres.

FLAMEVision Flame Detectors

The FLAMEVision flame detectors use patented IR array and triple IR solar blind technologies to provide reliable and cost effective fire detection solutions. FLAMEVision can be trusted in high dependency situations where fast acting and accurate flame detection is essential. FLAMEVision detectors offer superior performance in all weather conditions and all lighting situations with the added benefit of fire event location information provided by the IR array.

FLAMEVision can protect all hydrocarbon risks in classified hazardous explosive and non hazardous atmospheres. There is a wide range of system design options available with flexible monitoring and control interfaces and integrated video camera for verification purposes. Installation and maintenance procedures are easy and efficient, minimising the lifetime cost of ownership and reducing the need for complex test equipment and high level operator training.

Features

- Reliability Choice of IR array or enhanced Triple IR solar blind technologies allow users to tailor their systems to provide reliable and fast fire detection.
- Fast Acting FLAMEVision reacts to minimise the effect of fire and improve life safety through detection with less disruption and downtime.
- Accuracy Event location information will pin point fire using the IR array to allow targeted shutdown and suppression.
- Operator verification The optional built-in video camera assists operator verification and ensures optimum actions are taken. Additional benefit of post event analysis and to aid and verify alignment.
- Optimum protection in all weather conditions FLAMEVision maintains sensitivity using the enhanced IR sensors through heavy rain, snow, fog and morning dew.
- Use in Hazardous explosive atmospheres FLAMEVision is approved for protection regardless of area classifications for all applications throughout the facility.
- Reduced spares inventory and simpler maintenance Intrinsically safe, low cost and easy to use test equipment simplifies maintenance and reduces service costs. Universal mechanical mounting and cabling arrangements makes FLAMEVision installation friendly.
- Easy integration FLAMEVision interconnects to site control and safety systems via a range of standard industrial interfaces.
- Dynamic masking FLAMEVision maintains detection coverage even when a flame is part of the process being protected.
- Complete piece of mind FLAMEVision detectors continually monitor all electronics and perform regular optical window tests.

FLAMEVision FV300

FLAMEVision FV300 uses Infra-Red Array based sensing technology to provide the ultimate programmable flame detector. An array of 256 infra-red sensors plus two optical channels view the protected area.

Powerful algorithms running on a Digital Signal Processor (DSP) are tuned to the characteristics of a fire and analyse the signals from these channels to quickly and reliably identify fires. A key advantage of using an array is that the detector can accurately identify the location of the flame within the field of view. The location information is used to overlay a marker on the live video output to highlight the fire location. The user can quickly see the location of one fire or multiple fires and decide on the appropriate action. The location information is also available on the field network interface. User defined areas within the field of view can be masked and un-masked dynamically to improve reliability and maintain maximum coverage at all times.

The FV300 has an optional integral colour video camera which displays a live image of the field of view. This is in addition to the alarm location and status information which is available as standard on the video output.

Features

- Advanced array based detector
- Powerful signal processing on DSP with algorithms to give reliable flame detection
- Detection range: Over 50m for 0.1m^2 n-heptane pan fire
- Field of view: 90° horizontal, 85° vertical with full range maintained
- High immunity to false alarms
- Solar blind
- Masking of areas in field of view
- Automatic optical path monitoring
- Advanced self test and service features
- Built-in video camera (option): View protected area with alarm location and status overlay
- IEC 61508 Approved (SIL2)

Order Codes

516.300.006	FV311S Inra-red array flame detector
516.300.008	FV311SC Inra-red array flame detector PAL Camera
516.300.007	FV311SC-N Inra-red array flame detector NTSC Camera
516.300.411	FV411f Triple infra-red flame detector
516.300.412	FV412f Triple infra-red flame detector PAL camera
516.300.413	FV413f Triple infra-red flame detector NTSC camera

FLAMEVision FV400

FLAMEVision FV400 uses Triple IR Solar Blind technology for flame detection. This provides a reliable and cost effective solution in standard flame detection applications especially where there is a single hazard in the field of view. The FV400 FLAMEVision detectors use Triple IR Solar Blind sensing technology and flame detection algorithms to provide high performance sensing capabilities for hydrocarbon fires. This includes the ability to reliably sense flames through high densities of solvent vapours and black smoke, increasing the probability of early detection with consistent high sensitivity to flame throughout the whole field of view. They also ensure consistent detection of many different types of hydrocarbon fuels from alcohol to aviation fuel. Multiple interfaces are provided with the option of an integral CCTV camera to provide a visual means of operator verification.

Features

- Triple IR solar blind sensing technology
- Multiple Field Interfaces
- Detection range: Up to 65m for 0.1m^2 n-heptane pan fire
- Automatic optical path monitoring,
- Integral flame simulation and remote walk test help reduce the on going life time cost of the flame detecti installation
- Video verification via the integrated optional flameproof camera

EX II 2 GD
FV411F:
EX d IIC T4 Gb Ta -40°C to +80°C
EX d IIC T5 Gb Ta -40°C to +75°C
EX td IIIC T135°C Db Ta -40°C to +80°C
EX td IIIC T100°C Db Ta -40°C to +75°C

FV412F and FV413F:
EX d IIC T4 Gb Ta -40°C to +80°C
EX d IIC T5 Gb Ta -40°C to +70°C
EX td IIIC T135°C Db Ta -40°C to +80°C
EX td IIIC T100°C Db Ta -40°C to +70°C

Ancillary Equipment

517.300.001	MB300 FLAMEVision Mounting Bracket
517.300.002	WH300 FLAMEVision Weather Hood
517.300.021	WT300 FLAMEVision Walk Test Tool
517.300.022	CTI300 FLAMEVision Off-line Configuration Tool
517.300.024	CTI400 FLAMEVision Off-line Configuration Tool
517.300.006	MK300 FLAMEVision Field Spares Kit

System 800 Fire Detection for Hazardous Areas

Features

- Addressable I.S. MZX Technology
- Compatible with S271i+ flame detector
- Compatible I.S. callpoint.
- ATEX certified intrinsically safe Ex II 1 GD System
- Suitable for use in Zone 0, 1, 2, 20, 21 & 22

A complete range of ATEX and ICEX certified detectors suitable for use in Zone 0, 1, 2, 20, 21 & 22 Areas. MZX digital addressable for use on MZX Fire Controllers.

There is a risk of fire or explosion in all areas containing flammable substances in the form of liquids, gasses, dust or materials. Where these combustible materials are mixed with air in sufficient concentration they form a flammable atmosphere and the areas containing them are designated Hazardous Areas. When a source of ignition, such as a spark, is applied in a hazardous area, an explosion could take place. Electrical equipment supplied for use in Hazardous Areas must comply with requirements to ensure that its introduction into the area does not increase the existing risk. System 800 is an MX Technology Intrinsically Safe (I.S) system for use in Hazardous Areas which can be connected to the MX Fire Detection Systems installed in the Safe Areas.

The System designer must be familiar with ATEX certification and have successfully completed an appropriate recognised course in Intrinsic Safety. Design of the system requires that the designer has all the information concerning the installation correctly documented. The nature of the hazard must be defined by the customer and a survey carried out to determine the proximity of the safe area to establish cable runs.

The probability of a flammable mixture being present is defined by a zone number. Flammable gasses are classified in Groups and their minimum spontaneous ignition temperature is categorised by Class. Tyco Fire Protection Products supplied equipment marked EEx ia IIC T5 would be suitable for use in worst case conditions. E.G. Zone 0 (ia), Hydrogen (IIc), T5 (100 deg C). The Fire Alarm Equipment and Safety Barriers should be placed as near as possible to the containment wall of the Hazardous Area. This minimises the cable lengths between the barrier and the Hazardous Area and thus the capacity to store energy.

In order that an Installation will comply with the ATEX certification designated for each system, it is essential that the certified devices are connected with cables of the specified limits. These limits have been certified for specific classifications of hazard in order that energy storage is limited.

The number of devices connected to the barrier and located in the Hazardous Area must always be limited to not more than the listed maximum.

The use of the MX designer Software tool will ensure correct loop loading and it's use is essential to the design process.

System 800 is for use in MX Technology Addressable Fire detection circuits.

801PHEx Smoke and Heat Detector

The 801PHEx Optical Smoke & Heat Detectors form part of the 800Ex Series of MZX Addressable Fire Detectors. The detector plugs into the 5BEX base.

The mode of detector can be:

- Optical smoke only detector (sensitivity - High, Normal or Low)
- HPO smoke detector (sensitivity - High, Normal or Low)
- Heat only rate-of-rise (A1R) detector (no sensitivity selection)
- Heat fixed temperature 60°C (A2S no sensitivity selection)
- Optical (sensitivity - High, Normal or Low) combined with heat fixed temperature 60°C (A2S)
- HPO (sensitivity - High, Normal or Low) combined with heat fixed temperature 60°C (A2S)

Order Codes

516.800.530	801PHEx Optical Smoke + Heat Detector

801CHEx CO & Heat Detector

The 801CHEx Carbon Monoxide plus Heat Detector form part of the 800Ex Series of MZX Addressable Fire Detectors. The detector plugs into the 5BEX base.

The mode of detector can be:

- Heat only detector (A1R or A2S) (sensitivity: - High, Normal or Low)
- Compensated Carbon Monoxide detector (sensitivity: - High, Normal or Low)
- Compensated Carbon Monoxide detector (sensitivity: - High or Normal) combined with heat (A1R)

Order Code

516.800.531	801CHEx Carbon Monoxide + Heat Detector

801HEx Heat Detector

The 801HEx Heat Detectors form part of the 800Ex Series of MZX Addressable Fire Detectors. The detector plugs into the 5BEX base.

The mode of detector can be:

- EN54-5 A1R, rate-of- rise normal ambient
- EN54-5 A2S, fixed 60°C
- EN54-5 CR, rate-of-rise high ambient

Order Code

516.800.532 801HEx Heat Detector

801FEx Flame Detector

The 801FEx point type flame detector forms part of the MZX Technology range of digital addressable fire detectors. The detector plugs into the 5BEX base.

The 801FEx is a full featured solar blind flame detector and can detect a 0.1m^2 fire at a range of 20 m.
The mode of detector can be:

Order Code

516.800.066 801FEx I.R. Flame Detector

CP840Ex Break Glass Callpoint

The CP840Ex Weatherproof Break Glass Callpoint is designed to monitor and signal the condition of a switch contact associated with the break glass.

Order Code

514.800.513 CP840Ex MZX Digital Addressable Break Glass Callpoint

IF800Ex Interface Module

The Intrinsically Safe IF800EX Interface Module is designed to monitor fire contacts such as sprinkler flow switches. The IF800Ex is contained within a grey compression moulded glass filled polyester box with 2 x 20mm cable gland holes.

The electronic components are mounted on a double sided printed circuit board built into a potted module formed from a plastic moulding. Connectivity is via two terminal blocks fitted to the PCB.

Order Code

514.001.062 IF800Ex MZX Digital Addressable Interface Module Assembly

EXI800 Interface Module & Galvanic Isolators


The EXI800 Interface Module when used with a galvanic isolator, provides a path for an MZX panel to transparently communicate to slave devices (800Ex Detectors, IF800Ex Interface Module or CP840Ex Addressable Break Glass Call Point) connected to the Intrinsically Safe Loop. The EXI800 interface reduces the standard MZX loop supply voltage and signalling currents to levels that are acceptable for hazardous areas. The EXI800 can detect a short circuit on the left-loop, the right-loop, or the IS spur and will isolate the offending circuit from the other loop connections.

The IS loop output of the EXI800 interfaces with the Pepperl & Fuchs KFDO-CS-Ex1.54 Galvanic Isolator supplying loop voltage and signalling currents to the Intrinsically Safe Loop. Both single channel and dual channel Galvanic Isolators are available.

The EXI800 is supplied complete with a service tool EX dongle that is required to activate the address programming when using the standard MZX service tool. The MTL5525 Isolating Sounder Driver enables an intrinsically safe sounder located in the hazardous area, to be controlled from the safe area. The MTL5525 has one channel and is suitable for connecting certified loads in Zone 0, IIC, T4-T6 hazardous areas.

Order Codes

514.001.063	EXI800 Interface Module
517.001.306	Single channel KFDO-CS-EX1.54 Galvanic Isolator
517.001.305	Two channel KFDO-CS-EX2.54 Galvanic Isolator
517.001.304	MTL5525 I.S. Sounder Driver

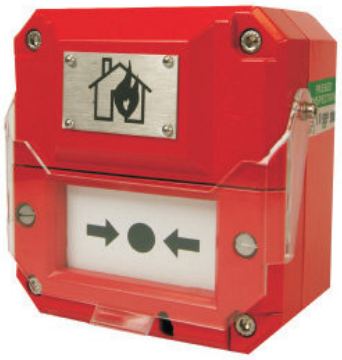
IS Barrier Enclosure

The MTL 'DX' Series enclosures will house the EXI800 (20 mm pitch), Pepperl & Fuchs KFDO-CS-Ex1.54 Galvanic Isolator (20 mm pitch) and the MTL5525 I.S. Sounder Driver (16.2 mm pitch). The units are DIN rail mounted with 70 mm of rail supplied with the DX070 and 170 mm of rail with the DX170. The enclosures are usually selected on the number of units they will accommodate. The following table shows the capacity of each of the enclosure types.

Order Codes

517.001.248	DX070 Enclosure
517.001.247	DX170 Enclosure

BG MIM800 Callpoint EX II 2 GD



An Ex II 2 GD Dust Approved & Increased Safety (EExemd) Resettable Manual Alarm Call Point for use with the EExd Flameproof MIM800 input module in EExd housing on an Addressable Detection & Releasing System in gas and dust explosive risks.

Please note that the above part is only compatible with Consys Version 17.0 and above when used with 577.800.067.

Features

- Glass Reinforced Polyester Enclosure – light, strong and not subject to corrosion
- Resettable Element
- Explosion protected EExe (ATEX Approved)
- In line and end of line resistors
- Red Epoxy Finish
- 7 x terminals
- Lift flap for extra protection against inadvertent operation
- 1 x changeover switch
- Captive cover screws
- Key operated test facility – simple but secure
- 1 x M20 bottom cable entry

Order Code

514.001.107	EX II 2 GD Dust Approved & Increased Safety (EExemd) Resettable Manual Alarm Callpoint

BG MIM800 Callpoint EX II 2 GD

Features

- Copper Free Metal Alloy Aluminium Housing
- Explosion Protected to EExd (ATEX Approved)
- 9 x Terminals
- 3 x M20 Cable Entries
- Fast Interrupt Mode for Call Points

An EExd Flameproof MIM800 Addressable Module for extending the monitoring of Call Points and other Alarm Inputs on an MZX, ZX and MZX Addressable System in gas and dust explosive risks.

Please note that the above part is only compatible with Consys Version 17.0 and above when used with 514.001.107.

Order Code

577.800.067	MIM800 Input Module in EExd Housing

System 620 Fire Detection for Hazardous Areas

Features

- Conventional I.S. system
- Suitable for worst case (EEx ia IIC T5)
- High Performance Optical (HPO) smoke detector
- Compatible I.S. callpoint
- Suitable for use in Zone 0,1,2,20,21 & 22

A complete range of ATEX and ICEX certified detectors suitable for use in Zones 0,1,2,20,21 & 22 areas for use on conventional panels. There is a risk of fire or explosion in all areas containing flammable substances in the form of liquids, gasses, dust or materials. Where these combustible materials are mixed with air in sufficient concentration they form a flammable atmosphere and the areas containing them are designated Hazardous Areas. When a source of ignition, such as a spark, is applied in a hazardous area, an explosion could take place. Electrical equipment supplied for use in Hazardous Areas must comply with requirements to ensure that its introduction into the area does not increase the existing risk. System 620 is an Intrinsically Safe (I.S.) system for use in Hazardous Areas which can be connected to a conventional fire Alarm Controller installed in the Safe Area.

The System Designer must be familiar with ATEX certification and have successfully completed an appropriate recognised course in Intrinsic Safety. Design of the system requires that the designer has all the information concerning the installation correctly documented. The nature of the hazard must be defined by the customer and a survey carried out to determine the proximity of the safe area to establish cable runs.

The probability of a flammable mixture being present is defined by a Zone Number. Flammable gases are classified in Groups and their minimum spontaneous ignition temperature is categorised by Class. ZETTLER products supplied equipment marked EEx ia IIC T5 would be suitable for use in worst case conditions. Eg. Zone 0 (ia), Hydrogen (IIc), T5 (100 deg C). The Fire Alarm Equipment and Safety Barriers should be placed as near as possible to the containment wall of the Hazardous Area. This minimises the cable lengths between the barrier and the Hazardous Area and thus the capacity to store energy.

In order that an Installation will comply with the ATEX certification designated for each system it is essential that the certified devices are connected with cables of the specified limits. These limits have been certified for specific classifications of hazard in order that energy storage is limited.

The number of devices connected to the barrier and located in the Hazardous Area must always be limited to not more than the listed maximum.

When a mixture of devices is connected to any one zone the numbers must be reduced in proportion to the ratio of the load presented to the barrier. When a System includes the use of an S231i+, it must be remembered that the load it presents to the circuit is twice that of a detector. A mixture of large and small load devices connected to a zone will require a calculation for the number of allowed detectors.

System 620

System 620 is for use in conventional fire detection circuits. Two Sounder Systems, (one earthed and one isolated), are available and either can be used with System 620.

MR601TEx High Performance Optical Smoke

The MR601TEX has been developed to overcome the slower response of the optical detectors to hot burning fires, by increasing the sensitivity of the optical detector when it is associated with a rapid change in temperature. In this way it is intended to become a detector which can cover some of the risks currently covered by ion chamber detectors. Smoke detectors will not detect burning alcohol or other clean burning liquids which do not generate smoke particles.

Order Code

516.054.011.Y	MR601TEX Conventional High Performance Optical Smoke Detector

MD601Ex & MD611Ex Heat Detectors

If environmental conditions rule out the use of smoke detectors, then a heat detector of the type MD601Ex/ MD611Ex may provide an acceptable, though less sensitive, alternative. For general use, and particularly where the ambient temperature may be low, a 'Rate-of-Rise' heat sensor is to be preferred. This type of sensor reacts to abnormally high rates of change of temperature and provides the fastest response over a wide range of ambient temperatures. A fixed temperature limit is also incorporated in these detectors. In many environments, e.g. kitchens and boiler rooms, sudden, large changes in temperature are considered 'normal'. Rate-of-rise detectors are generally not suitable in these cases and fixed temperature [static] types should be used.

Order Codes

516.052.051.Y	MD601EX Conventional Rate of Rise Heat Detector
516.052.041.Y	MD611EX Conventional Fixed Temperature Heat Detector

MDU601Ex Enhanced Carbon Monoxide Fire & Heat Detector

The MDU601EX detector is a combined CO and Rate of Rise Heat Detector where the sensitivity of the CO detector is enhanced in response to a fast rate of change of temperature.

Order Code

516.061.001.Y MDU601EX Enhanced Carbon Monoxide Fire & Heat Detector

601FEx & 601FEx-M Ex Flame Detectors

Flame detectors, unlike smoke and heat detectors, do not rely on convection to transport the fire products to the detector nor do they rely on a ceiling to trap the products. They can therefore be used to protect large open areas without sacrificing speed of response to flaming fires. In order to ensure full coverage however, flame detectors do require direct line of sight to all parts of the protected area.

Infra-red flame detectors such as the 601FEx are designed to respond rapidly to fires which involve clean-burning fuels such as alcohol or methane, i.e. fires which would not be detected by smoke detectors.

The 601FEx Flame Sensor, by virtue of its operating wavelength and flicker discrimination is insensitive to normal environmental influences. For outdoor use a solar-blind detector [e.g. the FV400 Plus] should be used. The 601FEx Flame detector should, normally, only be used inside buildings to supplement heat and smoke detectors.

Order Code

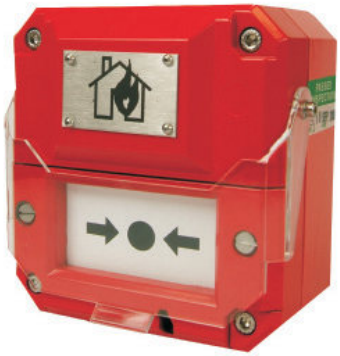
516.600.066 601FEx Infra-Red Flame Detector

5BEX Detector Base and Ancillaries

Order Codes

517.050.023	5BEX 5" Universal Ex Base
517.050.603	DHM-5B deckhead mounting
517.001.120	System 601 EOL Unit (Pk 10)

BG Conventional Callpoint EX II 2 GD



Features

- Polyester Enclosure
- Explosion protected EExe (ATEX Approved)
- In line and end of line resistors
- 9 x terminals
- Lift flap for protection against inadvertent operation
- 1 x changeover switch
- Captive cover screws
- No hammer required
- Key operated test facility – simple but secure
- 2 x M20 bottom cable entries

This EX II 2 GD Dust Approved & Increased Safety (EExemd) Conventional Break Glass Manual Alarm Call Point is fitted with a 470 ohm Alarm Level Resistor and a 4K7 ohm EOL Resistor for use with Tyco Conventional Detection Circuits including the DIM800 and DDM800 MZX Modules.

The unit's housing is made of polyester, therefor emaking it light, strong and not subject to corrosion.

No hammer is required to operate this callpoint. The glass is covered by a membrane, thus protecting the operator from glass fragments.

It is also fitted with a removable link which allows it to be connected on its own or with other Conventional Devices to a Tyco Conventional Detection Circuit.

Order Code

514.001.108	EX II 2 GD Dust Approved & Increased Safety (EExemd) Conventional Break Glass Manual Alarm Callpoint

BG3 I.S. Conventional Callpoint - Atex Approved

Features

- Intrinsically safe
- Weatherproof to IP66/IP67
- Robust GRP Housing

This manual fire alarm call point is designed in accordance with the latest European Callpoint Standard (EN54-11).

Weatherproof to IP66/IP67 and available certified intrinsically safe, simple apparatus manufactured from glass reinforced polyester (GRP) which provides a robust, corrosion free construction and ensures effective and reliable operation in harsh industrial and offshore environments.

Units are supplied in self coloured GRP with a 'Burning House' duty label as standard.

Order Code

514.001.059 Intrinsically Safe Callpoint (BG3I4NBN)

MCP220Ex I.S. Callpoint - ATEX Approved

Features

- Intrinsically Safe
- Weatherproof to IP67
- Compatible with System 620

The MCP220Ex is an intrinsically safe conventional callpoint for use on the ATEX Certified System.

Order Code

514.001.109 MCP220Ex Red Callpoint intrinsically safe for use with ATEX certified conventional system 620.

DB3B Flameproof Horn Sounder

Features

- For use in hazardous areas
- Robust GRP construction
- Powerful Output, up to 122dBA

This lightweight all GRP flameproof sounder is intended for use in potentially explosive gas and dust atmospheres and has been designed with high ingress protection to cope with the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

The flamepaths, flare and body, are manufactured completely from a UV stable glass reinforced polyester. Stainless steel screws and sinter are incorporated thus ensuring a corrosion free product. A tapered flamepath is used to overcome the problems of assembly of parallel spigot flamepaths.

Order Code

DB3BDGD048N2BNR	DB3B Flameproof Horn Sounder

XB8 Intrinsically Safe Beacon

Features

- Copper Free Metal Alloy Aluminium Housing
- Explosion Protected to EExd (ATEX Approved)
- 9 x Terminals
- 3 x M20 Cable Entries
- Fast Interrupt Mode for Call Points

This ruggedised, intrinsically safe and weatherproof beacon is intended for use in potentially explosive atmospheres, and has been designed with high ingress protection to cope with the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

Please refer to MEDC for guidance on cable capacitance and barriers.

Please Note:
This beacon should be used for supplementary indication purposes only. In this case the device is not required to be used as a Visual Alarm Device (VAD) and EN54-23 is not relevant to its classification.

Order Code

540.001.038	Intrinsically Safe Xenon Beacon (XB8BB024CNR)

XB11 Flameproof Xenon Beacon

Features

- Robust Corrosion Resistant GRP body
- High Power (5 Joule)
- Certificated Flameproof

These certified beacons have been designed for use in potentially explosive gas and dust atmospheres and harsh environmental conditions. The glass reinforced polyester enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance is required.

The beacon housing is manufactured completely from a U.V. stable, glass reinforced polyester. Stainless steel screws and mounting bracket are incorporated ensuring a totally corrosion free product.

Please Note:
This beacon should be used for supplementary indication purposes only. In this case the device is not required to be used as a Visual Alarm Device (VAD) and EN54-23 is not relevant to its classification.

Order Code

540.001.039	Flameproof Xenon Beacon (XB11B02406RNBNNNR)

Intrinsically Safe Barriers - Atex Approved

The following section relates to a range of intrinsically safe barrier and isolator equipment for use with ZETTLER fire detection systems. It essentially encompasses the relevant MTL5500 and MTL7700 series barriers plus the associated housing options as an alternative to existing MTL700 series equipment.

On all issues of intrinsically safe system design, please refer to Manual 26A for guidance.

Galvanic Isolators - MTL5500

The MTL5561 is a two channel interface for use with conventional detectors located in hazardous areas. This galvanic isolator is CE marked, and replaces the MTL3043 barrier option. It is suitable for connecting loads in Zone 0, IIC, T4-T6 hazardous areas if suitably certified.

The MTL5525 Isolating Sounder Driver enables an intrinsically safe sounder located in the hazardous area, to be controlled from the safe area.

Order Codes

517.001.302	MTL5561 2 Channel Galvanic Isolator
517.001.304	MTL5525 I.S. Sounder Driver

The MTL5525 barrier is designed as a CE marked replacement for the existing MTL3021 barrier. It has one channel and is suitable for connecting loads in Zone 0, IIC, T4-T6 hazardous areas if suitably certified.

When designing new systems or upgrading existing MTL3000 series systems to MTL5500 series, please use the appropriate MTL "DX" series enclosure equipment (16.2 mm pitch).

Zener Barriers - MTL7700

The MTL7700 Series intrinsically safe shunt-diode safety barriers are innovative devices designed to provide exceptionally high packing densities, straightforward installation and simplified connection, commissioning and maintenance facilities. The MTL7700 Series include secondary replaceable fuses. These are useful where there is the possibility of faults occurring during commissioning, which would otherwise blow the barriers' internal safety fuses.

One secondary replaceable fuse for each barrier channel is provided and is lower in value than the safety related fuse. Fuses are packaged in small mouldings which can be latched in a disconnect position to break the safe and hazardous areas during commissioning, maintenance and fault finding, thus avoiding the need for additional disconnect terminals.

Order Codes

517.001.301	MTL7728 + Zener Safety Barrier for conventional detection circuits designed in accordance with System 601
546.004.005	Intrinsically safe sounder circuit interface module

Please note: This barrier is a direct alternative for the MTL728+ barrier.

UC Series Enclosures

The UC series of enclosures provides a simple but effective means of mounting and protecting the MTL3000 series units, in safe areas. A standard lightweight enclosure with transparent lid, which can accommodate 4 units. The polycarbonate enclosure is impact resistant, flame retardant and dustproof to IP65.

Order Code

517.001.196	UC2 4 Way Barrier Housing

MT Series Enclosures

The MT series of enclosures provides a simple, effective means of mounting and protecting MTL700 Series barriers in safe areas or low-risk hazardous areas. Three lightweight polycarbonate enclosures with see through lids accommodate up to 2, 5 and 12 barriers in the safe area. All the enclosures are supplied ready fitted with a nickel plated brass busbar mount, so barriers can be installed and wired up immediately without special tools.

Order Codes

517.001.198	MT2 2 Way Zener Barrier Housing
517.001.199	MT5 5 Way Zener Barrier Housing
517.001.200	MT12 12 Way Zener Barrier Housing

Ancillaries

The ERL7 earth rail is a nickel plated 3 x 10mm rail (1 metre long), suitable for a do-it-your self mounting arrangement. It will accommodate up to 2.5 ETM7 earth terminals per barrier location for terminating earth returns and cable screens from the hazardous area.

The IMB7 mounts on a flat surface or top hat rail (35mm) or G-profile rail and acts as a convenient method for mounting the earth busbar.

Order Codes

517.001.205	ERL7 Earth rail for I.S. systems
517.001.206	ETM7 Earth termination connection system
517.001.207	IMB7 Insulating mounting block

MZX SensorLaser™ Plus Fibre Optic Linear Heat Detection

The MZX SensorLaser™ Plus guarantees fast and continuous fire detection even in difficult and varying ambient conditions. This linear heat detection system enables long and heavily fragmented facilities such as traffic and supply tunnels, cable routes and conveyor belts as well as large scale buildings such as production halls, cold stores and multi storey car parks to be monitored at all times. The MZX SensorLaser™ Plus is ideal for use in areas that are hard or impossible to access after installation, e.g. false floors, since maintenance and troubleshooting can be carried out from the control unit.

The fibre optic sensor cable itself is maintenance free and, thanks to its particularly robust characteristics, offers a high level of security against false alarms. The sensor cable is insensitive to dust, dirt, moisture, high temperatures (up to approx. 90 °C), pressure and the action of vibration and wind as well as corrosive atmospheres. Because of its purely passive, optical analysis process, the MZX SensorLaser™ Plus is even immune from electromagnetic interference caused by generators, energy routes, cables or electric motors.

The MZX SensorLaser™ Plus delivers precise information about the location, size and spread of a fire even under ambient conditions that would cause other fire detection systems to fail.

The MZX SensorLaser™ Plus enables a measuring range of up to 8 km per sensor cable. Up to 2 spurs each with an 8 km measurement range, or 1 loop with an 8 km range can be connected. Since the ambient conditions in a monitoring area of this size can vary enormously, each sensor cable can be divided into up to 256 zones. Several alarm criteria can be freely defined in each zone. This level of precision adjustment allows the MZX SensorLaser™ Plus to provide a high level of resistance to false alarms and precise fire detection despite contrary and variable ambient conditions.

Features

- Continuous detection despite extremely large monitoring area
- Easy and rapid installation of the maintenance free sensor cable
- Very high resistance to extreme ambient influences (immune against heat, cold, humidity, corrosion, strong winds and draft)
- Undiminished operation under electromagnetic interference
- Unprecedented security against false alarms
- Very high sensor cable service life of up to 30 years
- Temperature profile over the complete measurement range delivers exact information of location, size and spread of fire
- Very low maintenance costs as maintenance and trouble shooting can be done from the control unit
- VdS certified to EN 54 part 5
- One controller unit will drive up two 8 km spurs or one 8km loop
- Easy integration into existing installations
- Each sensor cable divided into up to 256 zones
- Individual configuration of 5 alarm criteria per zone
- Network connection through Modbus, TCP/IP, FTP and SCPI interfaces

The accessible laser radiation emitted by the Class 1M laser is not hazardous to the eyes (provided there are no other optical instruments in the path of the beam), while operation is absolutely fail-safe even in the event of a break in the cable. In addition, the sensor cable can be used in explosive atmospheres (ATEX zones) up to zone 0 without any additional measures being required. In contrast to conventional fibre optic systems, the low laser output of < 20mW ensures that the measuring system has a long service life.

Zone Configuration

Ambient conditions (temperatures) can fluctuate sharply over a measuring range of many hundreds of metres. This makes it essential to divide the measuring range into zones that can be adapted optimally to the ambient conditions on the basis of differing alarm criteria. This ensures high detection reliability and also security against false alarms.

The MZX SensorLaser™ Plus allows the measuring range to be very finely divided into zones. Up to 256 zones can be defined for each sensor cable, with up to 5 alarm criteria configurable in each zone. Another 2 alarm criteria respond when there is a temperature drop, enabling them to be used e.g. in tunnels to warn of black ice.

Control Unit
With ten product variants, permitting measuring ranges of 1 to 8 km, the MZX SensorLaser™ Plus can be configured to suit the particular project.

Sensor Cable
The sensor cables offered are optimised for a rapid response time. The sheathing is flame retardant, halogen free and resistant to dust, dirt, moisture, corrosive atmospheres and most organic solvents. Both types of sensor cable offer adequate protection against rodents and are designed for a service life of 30 years.

There are two different types of sensor cable for differing requirements. The MZX SensorLaser™ Plus Safety cable can be used under normal ambient conditions. It is particularly flexible and extremely versatile.

Where the sensor cable is expected to be exposed to high mechanical stresses, we recommend that the MZX SensorLaser™ Plus Steel Wire Armoured cable be used. This sensor cable, which was specifically developed for heavy duty applications, is particularly suitable where high tensile forces and high lateral pressures can occur.

The cable length will be individually cut to the customer specified length and 2 connectors are fitted for easy handling. The cable should be commissioned in multiples of one metre and therefore the order for the cable has to be placed per metre.

Every order for sensor cable must include the corresponding connectors, which will be assembled by the supplier. The cable with pre assembled connectors offers fast commissioning of the system without any additional splicing.

Mounting Materials
For professional mounting of the sensor cables four different types of mounting sets are available. These sets are designed for different applications. They can be used for the mounting of the sensor cable to the wall and the ceiling. Every set contains 100 x clamps, 100 x anchors and 1 x SDS drill bit.

Plastic Clamps
The plastic of these clamps is UV resistant, halogen free and particularly robust in ambient conditions.

Steel Clamps
The clamps in these sets are made of stainless steel or zinc plated steel and are rubber protected. The rubber protection guarantees that the sensor cable is not damaged if friction occurs. For every clamp 2 x nuts are included for fixing to the anchor.

Connection Cable
Connection to the MZX Fire Alarm Panel is by means of the MZX SensorLaser™ Plus Connection Set. This set consists of 3 x cables. For connection of the Fire Alarm Panel to one end of the sensor cable a D-Sub connector is included. The other end of the sensor cable is desoldered which provides a quick connection into the MZX System without any soldering effort.

Enhanced Communication
The MZX SensorLaser™ Plus iBox allows the 20 relay outputs supplied as standard to be expanded up to 2 x 256 outputs so that each zone can be assigned its own relay output. This could, for instance, be used to control fire extinguishing systems. The iBox also enables connection to SCADA or process control systems via Modbus TCP or Modbus RTU.

The number of relays can be extended using the MZX SensorLaser™ Plus Relay Controller Set. This set consists of a pre-programmed field bus controller, one Digital Output Module and an End module. It also comes with 8 x relays and accessories for easy wiring.

Complies with the essential requirements of the following applicable European Directives and carries the CE marking accordingly:

- The Low Voltage Directive 73/23/EEC amended by 93/68/EEC
- The EMC Directive 2004/108/EC

Conforms with the following product standards:

EMC

- IEC61326:1997+A1:1998+A2:2000
- EN61326:1997+A1:1998+A2:2001
- CISPR11:1997+A1:1999 / EN55011:1998+A1:1999
- IEC61000-4-2:2001/EN61000-4-2:1995+A1:1998+A2:2001
- IEC61000-4-3:2002/EN61000-4-3:2002
- IEC61000-4-4:2001/EN61000-4-4:1995+A1:2001+A2:2001
- IEC61000-4-5:2001/EN61000-4-5:1995+A1:2001
- IEC61000-4-6:1995+A1:2000 /EN61000-4-6:1996+A1:2001
- IEC61000-4-8:2001/EN61000-4-8:1993+A1:2001
- IEC61000-4-11:1994+A1:2000
- EN61000-4-11:1994+A1:2001
- Canada: ICES-001:1998

Safety

- IEC61010-1:2001/EN61010-1:2001
- IEC60825-1:2001/EN60825-1:1994+A11:1996+A2:2001
- Canada:CAN/CSA-C22.2No.61010-1:2004
- USA:UL61010-1:2004;FDA21CFR1040.10+Laser Notice No.50

Order Codes

516.016.310	MZX SensorLaser™ 1/1 – 1km range, 1 sensor cable
516.016.311	MZX SensorLaser™ 1/2 – 1km range, 2 sensor cables
516.016.312	MZX SensorLaser™ 2/1 – 2km range, 1 sensor cable
516.016.313	MZX SensorLaser™ 2/2 – 2km range, 2 sensor cables
516.016.314	MZX SensorLaser™ 4/1 – 4km range, 1 sensor cable
516.016.315	MZX SensorLaser™ 4/2 – 4km range, 2 sensor cables
516.016.316	MZX SensorLaser™ 8/1 – 8km range, 1 sensor cable
516.016.317	MZX SensorLaser™ 8/2 – 8km range, 2 sensor cables
516.016.318	MZX SensorLaser™ Connection Set
516.016.319	MZX SensorLaser™ iBox
516.016.320	MZX SensorLaser™ Relay Controller Set
516.016.321	MZX SensorLaser™ Power Supply
516.016.322	MZX SensorLaser™ Safety Cable (per metre)
516.016.322.C	MZX SensorLaser™ Safety Connector
516.016.323	MZX Steel Wire Armoured SensorLaser™ Cable (per metre)
516.016.323.C	MZX SensorLaser™ Steel Connector
516.016.324	MZX SensorLaser™ Setting Tool
516.016.325	MZX SensorLaser™ Relay Extension Set
516.016.326	MZX SensorLaser™ Zinc Plastic Clamp Set (PK 100)
516.016.327	MZX SensorLaser™ Steel Plastic Clamp Set (PK 100)
516.016.328	MZX SensorLaser™ Steel Zinc Clamp Set (PK 100)
516.016.329	MZX SensorLaser™ Stainless Steel Clamp Set (PK 100)
516.016.330	MZX SensorLaser™ Spare Unit
516.016.331	MZX SensorLaser™ Demo Unit

Detector Test Equipment

Testifier
Scorpion
Solo
Flame Detector Testers

Testifier Detector Test Equipment

Testifire is the world's first 3 in 1 detector tester. Suitable for single and multi-sensor detectors, it enables functional testing of Smoke, Heat and CO and offers a wide range of benefits over existing test tools.

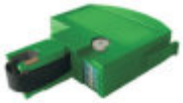
Features

- Smoke, Heat & CO in one unit*
- Independent, simultaneous or sequential testing
- Clearing mode
- Capsule generated stimuli
- 'Hi Heat' setting for sensors up to 100°C

Benefits

- Increases productivity on site
- Compatible with widest range of detectors
- Controlled stimuli release prevents damage to the detector
- Non-pressurised capsules eliminate environmental concerns
- Designed for use with Solo Access poles

* CO available on Testifire 2001

	Description	Order Codes
	**Testifire Smoke, Heat & CO Detector Test Kit 2001** 1 x Testifire Smoke, Heat & CO Detector Tester 1 x Testifire Smoke Capsule 1 x Testifire CO Capsule 2 x Solo 770 Battery Batons (517.001.273) 1 x Solo 727 Battery Charger (517.001.274)	517.001.276
	**Testifire Smoke and Heat Detector Tester Kit 1001** 1 x Testifire Smoke and Heat Detector Tester 1 x Testifire Smoke Capsule 2 x SOLO 770 Battery Battons (517.001.273) 1 x SOLO 727 Battery Charger (517.001.274)	517.001.267
	**Smoke Capsules** 6 x Testifier TS3 Replacement smoke capsules	517.001.237
	**CO Capsules** 6 x Replacement CO capsules (For use with Testifire 2001)	517.001.238

Scorpion Detector Test Equipment

Scorpion is an innovative solution for functionally testing any hard-to access smoke detector.

A Scorpion head unit is a smoke generator which is installed next to the point detector or at the furthest sampling hole of an ASD pipe and when required, generates smoke for a functional test of the device.

A test that would have taken hours in planning, risk assessments and execution, is now completed in a matter of minutes and is as easy as testing a detector within reach.

Ideally suited for:

- Lift Shafts
- Ceiling and Floor Voids
- Secure Areas (e.g. Plant / Storage / Server room)
- Hazardous Areas

	Description	Order Codes
	**Scorpion Point Installation Kit** Includes: 1 x Scorpion Point Head Unit, 1 x Scorpion Access Point	517.001.270
	Scorpion ASD Installation Kit Includes: 1 x Scorpion ASD head Unit, 1 x Scorpion Access Point	517.001.271
	**Scorpion Engineer's Controller** Controls Scorpion Head Unit via connection to Scorpion Access Point	517.001.272

Solo Detector Test Equipment

	Description	Order Codes
	**Aerosol Dispenser for Solo Smoke and Test Aerosols** 1 x Testifire Smoke, Heat & CO Detector Tester 1 x Testifire Smoke Capsule 1 x Testifire CO Capsule 2 x Solo 770 Battery Batons 517.001.273 1 x Solo 727 Battery Charger 517.001.274	517.001.236
	**Solo A3 Smoke Detector Test Aerosol** • Designed for use with Solo Dispenser • Non-flammable • Fast activation • Fast clearing	517.001.256
	**Solo C3 CO Detector Test Aerosol** • Designed for use with Solo Dispenser • Genuine, non-flammable CO stimulus • Controlled delivery	517.001.262
	**Solo 461 Cordless Heat Detector Test Kit** • Battery powered • Suits fixed temperature, rate of rise and combination detectors up to 90°C • Lightweight and simple to use • Universal design suits wide range of detectors • Designed for use with Solo Access Poles Includes: 1 x Solo Heat Detector Tester 1 x Solo 727 Battery Charger 517.001.274 2 x Solo 770 Battery Batons 517.001.273	517.001.254
	**Solo 770** 3.0Ah NiMH Battery Baton for use with Testifire, Solo 461 and Scorpion	517.001.273
	**Solo 727** Charger for use with 3.0Ah Solo 770 Battery Batons	517.001.274

	Description	Order Codes
	**Solo 200 Detector Removal Tool** • Universal design suits wide range of detectors • Designed for use with Solo Access Poles	517.001.240
	**800RT Detector Removal Tool** • Compatible with 800 and 600 series detectors • Enables detector dust covers to be removed	516.800.917
	**Storage Bag** A protective storage bag for the Solo and Testifire product ranges	517.001.264
	**Solo 100 Telescopic Access Pole** 3 section Telescopic Pole extends from 1.26 to 4.5 metres	517.001.230
	**Solo 108 Telescopic Access Pole** 2 section Telescopic Pole extends from 1.2 to 2.2 metres	517.001.275
	**Solo 101 Extension Pole** 1.13 metre Extension Pole which can be used on its own or fitted to a Solo Telescopic Pole	517.001.226
	**Adaptor Tube B** Adaptor for Solo Access Poles to allow fitting of: • 800RT Detector Removal Tool (516.800.917) • T110 Flame Detector Tester (592.001.012) • T210+ Flame Detector Tester (592.001.016) • M900 Address Key Extractor Tool (517.001.235)	517.001.224
	**M900 Address Key Extractor Tool** The address key extractor tool can be used to remove the address key from either a 4" or 5" detector base from ground level	517.001.235

T210+ Test Source Flame Detector Tester

Features

- Approved for use in zone 1 & 2 areas (GPIIC gases)
- Adaptor plate to ensure perfect alignment
- IECEX Approved

Order Codes

592.001.016	T210+ Test source for use with Solo 704 Adaptor Tube B (517.001.224) and Solo 100/101 Poles (517.001.230/226)
592.001.014	T210+Adaptor required for the T210+ to be used with S200 and S200 Plus Flame Detectors
592.001.010	T110 PP3 Battery and Charger Kit

Other Flame Detector Tester Equipment

	Description	Order Codes
	T110 Test Source for use with Solo 704 adaptor tube B (517.001.224) and Solo 100/101 poles (517.001.230/226)	592.001.012
	T110 Adaptor for series 600 and 800 Flame Detectors	592.001.018

System Accessories

Batteries

Power Supplies

Door Release Equipment

Auxiliary Interface Relays

Frames & Document Boxes

Fire Resistant Cable

Batteries

Order Codes

PS-1270	12 Volt 7.0 Ampere hour rechargeable sealed lead acid battery
PS-12650	12 Volt 65.0 Ampere hour rechargeable sealed lead acid battery
PS-12380	12 Volt 38.0 Ampere hour rechargeable sealed lead acid battery
PS-6100	6 Volt 10.0 Ampere hour rechargeable sealed lead acid battery
PS-12170	12 Volt 17.0 Ampere hour rechargeable sealed lead acid battery
PS-12260	12 Volt 26.0 Ampere hour rechargeable sealed lead acid battery
PS-12120	12 Volt 12.0 Ampere hour rechargeable sealed lead acid battery

24 V 5 A Power Supply Unit

Features

- Robust metal housing
- Twin fused outputs
- Temperature compensated charging
- Deep discharge protection of batteries
- Fault relay output
- Comprehensive LED status indication

This PSU is approved by IMQ to EN 54-4:1997 + A1:2002 and EN60950-1:2001. The steel housing contains a 5 amp switch mode power supply and monitoring board and has space to accommodate 2 x 12 V 17Ah sealed lead acid batteries. The 10 front panel LED's comprehensively indicate the status of the unit.

Order Code

558.004.020	24 V 5 A Power Supply Unit with housing for 17A/H Batteries

24 V 5 A Power Supply Unit

Order Codes

558.004.021	Compact Power Supply EN54 2A 7AH 24 Vdc (27.6V) 2A to load +0.3A battery charging Fit up to 2 x 7Ah batteries 275H x 330W x 80D - Hinged lid
558.004.022	Compact Power Supply EN54 2 A 17Ah 24 Vdc PSU (27.6 V) 2A to load + 0.3A battery charging Fit up to 2 x 7Ah batteries 420h x 400w x 80 x 80D - Hinged lid

The new STX range of switch mode power supplies has been specifically designed for EN54 compliant fire systems.

Available in 2 A versions they are certified to EN54-4:1997, A1:2002 & A2:2006. The units include intelligent battery charging using Elmdene's efficient EcoCharge technology, possess mains & battery monitoring with independent voltfree outputs and also feature battery deep discharge protection in the event of a prolonged mains failure.

The inclusion of LED indicators provides quick diagnostics of the status of the power supply, while a variety of enclosures offer the installer a choice of standby battery backup options.

Door Release Magnets

Features

- Integral release button
- Attractive design
- Slimline ABS housed units
- Robust floor mounted unit

The door magnet range encompasses 2 metal and 2 ABS housed wall mounted and 1 floor mounted release magnet sets

	Description	Order Codes
	**Door release magnet set, Wall Mount, Metal Housing, 24 Vdc** 89x89x70 mm, 0.5 Kg, 180N Holding Force, 1.15W Coil @ 24 Vdc **Door release magnet set, Wall Mount, Metal Housing, 230 Vac** 89x89x70 mm, 0.5 Kg, 180N Holding Force, 1.15W Coil @ 230 Vac	3-59-0404-S001 3-59-0404-S002
	**Door release magnet set, Wall Mount, ABS Housing, 24 Vdc** 95x87x46 mm, 0.36 Kg, 200N Holding Force, 1.15 W Coil @ 24 Vdc **Door release magnet set, Wall Mount, ABS Housing, 230 Vac** 95x87x46 mm, 0.36 Kg, 200N Holding Force, 1.15 W Coil @ 230 Vac	3-87-0351 3-87-0352
	**Door release magnet set, floor mount, ABS housing 24 Vdc** 110x96x96 mm, 0.7 Kg, 200N Holding Force, 45 mA Coil @ 24 Vdc	3-84-0301
	**Floor mounting bracket for adapting wall mounted door magnets to floor mount**	2-34-035G-S001

Door Release Power Supply

The Transformer Rectifier is a dual purpose, smoothed power supply providing either an energised or de-energised output upon activation. The output may be activated by utilising a set of volt free contacts from a fire or security panel, or by providing a 12/24 Vdc trigger voltage from other apparatus.

The transformer rectifier units are normally used to control the operation of other 24 Vdc equipment such as magnetic door retainers. The units are ideal for applications where the supply is to be energised from a remote source.

Order Code

558.004.010 ELM 24 V 4 A Door Holder PSU

Door Release Button

Order Code

519.001.008 Door Release Button

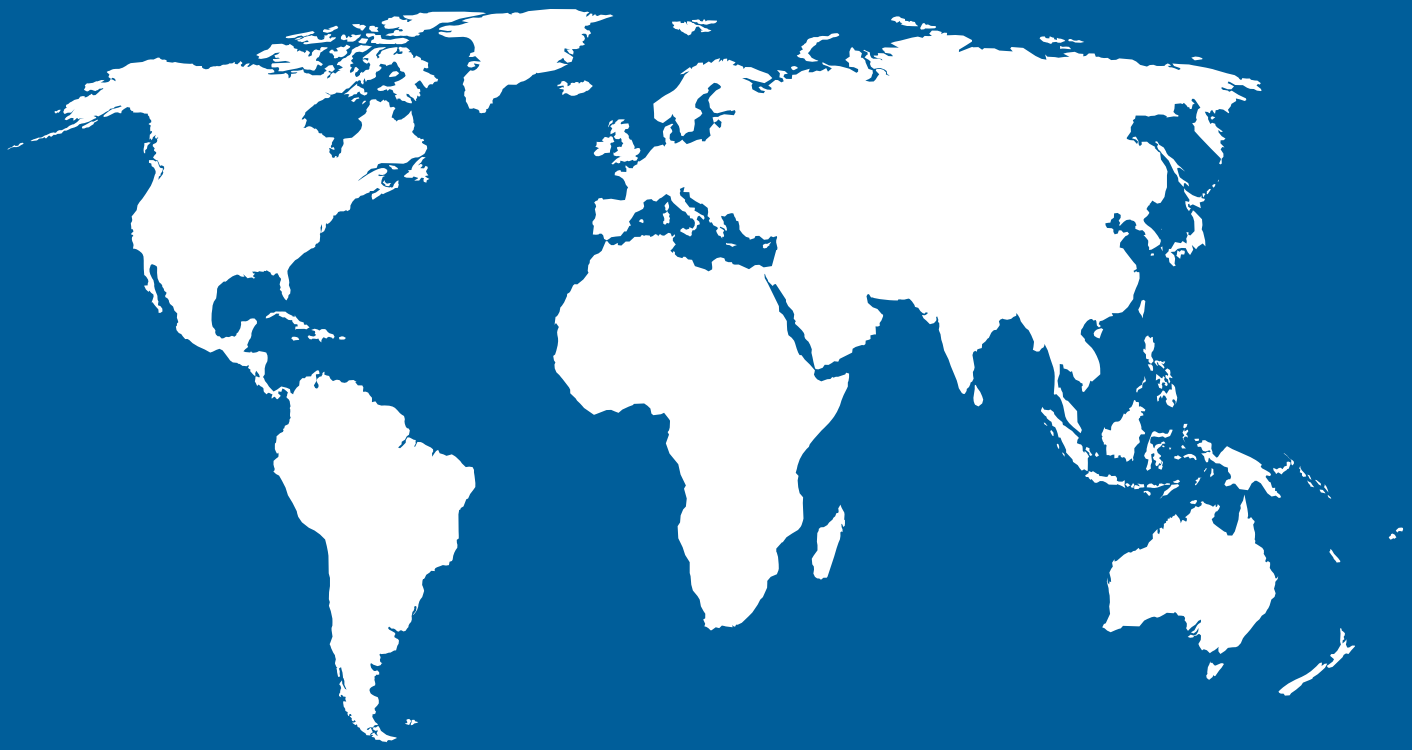
Door Release Button (white) supplied with surface mount backbox (black) for manual release of door magnets or door release units.

Boxed Relays

	Description	Order Codes
	**Metal boxed heavy duty alarm relay** with 25 A mains rated DPCO contacts. 24 VDC 50 mA rated coil. Suitable for heavy duty switching applications.	567.007.008 (240Vac)
	**RU1-24** This is a metal boxed auxiliary relay with 5 A Mains rated double pole contacts with a 24 Vdc 25 mA coil. This compact relay is suitable for interfacing a fire alarm controller to low current mains powered devices or contactors.	RU1-24

Relay Output Board

	Description	Order Code
	**A1466 Relay Output Board Gold clad contacts 2A @ 24 Vdc** • DPCO • Coil resistance 2900 ohms • Operating current 8 mA @ 24 Vdc • Operating Voltage 17.5 - 30 Vdc • Terminals suitable for 2.5 mm^2 cable • 26 x 60 x 18 mm • Polarised and suppressed	508.023.036



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ZETTLER, is a leading brand of fire detection products in the European market. The ZETTLER fire detection product line includes a wide range of EN54 CPD approved fire detection products carrying approvals and cross-listings, including VdS and NF. The ZETTLER product lines are available through ZETTLER Authorised Distributors as well as many Johnson Controls offices around the world.

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