
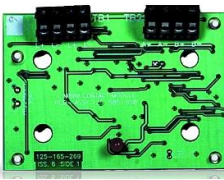



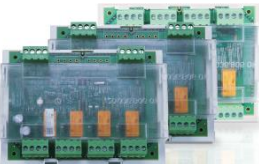




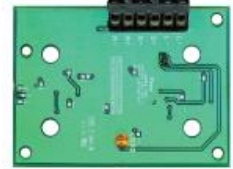
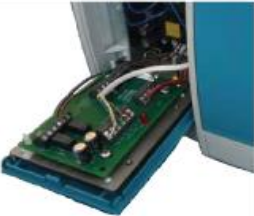

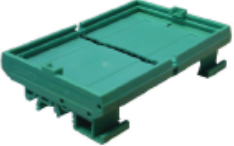


FIRE DETECTION ADDRESSABLE DEVICES

	DESCRIPTION	TECHNICAL SPECIFICATION
 <p>Generation 6 MX Mini Input Module Item No MIM800</p>	<p>The MIM800 and MIM801 Addressable Mini Input Modules supervise one circuit of voltage-free contacts, such as outputs from extinguishing systems, ventilation controls, etc., and transmit the state to the MX Control and Indicating Equipment (CIE).</p> <p>Both devices can be programmed to supervise either normally-open or normally-closed contacts. The default MIM800 configuration is to supervise normally-open contacts; the default for MIM801 is to supervise normally closed contacts.</p>	<p>Loop Voltage 20V to 40Vdc Quiescent Current 275µA (typical) Alarm State Current 2.8mA Max. MIM800 / Loop 200/250 Input Cable Length 1m (maximum) Ambient Temperature -25°C to +70°C Storage Temperature -40°C to +80°C Relative Humidity 10% to 95% (non cond.) Dimensions (HWD) 13 x 48 x 57mm Weight 22g ActivFire Listing afp-3165 (MIM800) <i>Indoor Applications Only</i></p>
 <p>Generation 6 MX Contact Input Module Item No CIM800</p>	<p>The CIM800 Addressable Contact Input Module supervises two circuits of voltage-free contacts such as outputs from extinguishing systems, ventilation controls, fire door controls, sprinkler flow switches, non indicating detectors, etc. The LED illuminates when any input goes into alarm, and can also be programmed to blink when polled by the MX Control and Indicating Equipment (CIE).</p> <p>The CIM800 can be configured to supervise:</p> <ul style="list-style-type: none"> • Two circuits of multiple normally-open contacts; with short circuit alarm. • Two circuits of multiple normally-closed contacts; open circuit alarm. • Two circuits with a single normally-open contact closing for alarm; with short circuit fault. This requires a resistor in series with the alarm contact and special programming at the MX4428 CIE. <p>On the MX4428, the two circuits are presented as a single addressable point; either circuit in alarm puts the point into alarm, any circuit in fault puts the point into fault.</p>	<p>Loop Voltage 20V to 40Vdc Quiescent Current 275µA Alarm State Current 2.8mA Circuit Resistance 10 Ohm EOL Resistor 200 Ohm Alarm Resistance (s/c fault) 100 Ohm Max. CIM800 per Loop 200/250 Ambient Temperature -25°C to +70°C Storage Temperature -40°C to +80°C Relative Humidity 10% to 95% (non cond.) Dimensions (HWD) 61 x 84 x 25 mm Wire Size (maximum) 2.5sq. mm ActivFire Listing afp-1446 <i>Indoor Applications Only</i></p>
 <p>Generation 6 MX Relay Interface Module Item No RIM800</p>	<p>The RIM800 Addressable Relay Interface Module provides one volt-free changeover contact unsupervised output. The relay is controlled by a command sent from the MX Control and Indicating Equipment (CIE) via the MX addressable loop and may be used to signal states to other systems (e.g. security systems) or to energise loads such as Door Holders.</p> <p>The relay operation is determined by the CIE programming. The RIM800 has a red LED which may be configured to indicate relay activation and CIE polling.</p>	<p>Loop Voltage 20V to 40Vdc Quiescent Current 285µA Alarm State Current 2.8mA Relay Contact3 (maximum) 2A @ 30Vdc Max. RIM800 per Loop 200/250 Ambient Temperature -25°C to +70°C Storage Temperature -40°C to +80°C Relative Humidity 10% to 95% (non cond.) Dimensions (HWD) 61 x 84 x 25 mm Wire Size (maximum) 2.5sq. mm ActivFire Listed afp-3167 <i>Indoor Applications Only</i></p>
 <p>Generation 6 MX Single Input/Output Module Item No SIO800</p>	<p>The SIO800 Addressable Single Input / Output Module is an MX addressable module that provides one clean contact input and a voltage-free changeover relay output. The input supports normally-open or normally-closed contacts and short/open circuit faults — depending on the input mode selected by the Control and Indicating Equipment (CIE). The relay is controlled by a command sent from the CIE via the MX addressable loop. The LED illuminates when the input goes into alarm, and can also be programmed to blink when polled by the CIE.</p>	<p>Loop Voltage 20V to 40Vdc Quiescent Current 300µA Alarm State Current 3mA Circuit Resistance 50 Ohm EOL Resistor 3k3 Ohm Alarm Resistor 680 Ohm Relay Contact Rating 2A @ 24Vdc Max. SIO800 per Loop 250 Ambient Temperature -25°C to +70°C Storage Temperature -40°C to +80°C Relative Humidity 10% to 95% (non cond.) Dimensions (HWD) 61 x 84 x 15 ActivFire Listing afp-3178 <i>Indoor Applications Only</i></p>

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 <p>Generation 6 <i>MX</i> Multi-Input/Output Module Item No MIO800</p>	<p>The MIO800 Addressable Multi-Input/Output Module has three inputs and two outputs from latching relays that communicates with compatible <i>MX</i> Control and Indicating Equipment (CIE).</p> <p>Each input on the MIO800 supports one of the following modes:</p> <ul style="list-style-type: none"> • Multiple normally-open contacts, closing for alarm, with open-circuit fault • A single normally-open contact, closing for alarm with short-circuit and open-circuit faults • Multiple normally-closed, open for alarm contacts with short-circuit faults • A single normally-closed contact, opening for alarm, with short-circuit and open-circuit faults. 	<table border="0"> <tr><td>Loop Voltage</td><td colspan="2">20V to 40Vdc</td></tr> <tr><td>Quiescent Current</td><td colspan="2">480µA</td></tr> <tr><td>Operated Current (LED on)</td><td colspan="2">3mA</td></tr> <tr><td>Max. MIO800 per Loop</td><td colspan="2">250</td></tr> <tr><td>Input EOL</td><td colspan="2">330 Ohm</td></tr> <tr><td>Input Alarm Resistor</td><td colspan="2">150 Ohm</td></tr> <tr><td>Maximum Circuit Resistance</td><td colspan="2">40 Ohm</td></tr> <tr><td>Relay Contact Rating</td><td colspan="2">2A @ 24Vdc4</td></tr> <tr><td>Ambient Temperature</td><td colspan="2">-25°C to +70°C</td></tr> <tr><td>Storage Temperature</td><td colspan="2">-40°C to +80°C</td></tr> <tr><td>Relative Humidity</td><td colspan="2">10% to 95% (non cond.)</td></tr> <tr><td>Dimensions (HWD)</td><td colspan="2">72 x 110 x 18 mm</td></tr> <tr><td>Wire Size (maximum)</td><td colspan="2">2.5sq. mm</td></tr> <tr><td>ActivFire Listing</td><td colspan="2">afp-3166</td></tr> </table> <p><i>Indoor Applications Only</i></p>	Loop Voltage	20V to 40Vdc		Quiescent Current	480µA		Operated Current (LED on)	3mA		Max. MIO800 per Loop	250		Input EOL	330 Ohm		Input Alarm Resistor	150 Ohm		Maximum Circuit Resistance	40 Ohm		Relay Contact Rating	2A @ 24Vdc4		Ambient Temperature	-25°C to +70°C		Storage Temperature	-40°C to +80°C		Relative Humidity	10% to 95% (non cond.)		Dimensions (HWD)	72 x 110 x 18 mm		Wire Size (maximum)	2.5sq. mm		ActivFire Listing	afp-3166																											
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 <p>Generation 6 <i>MX</i> Quad Ancillary Modules Item No QXX850</p>	<p>The <i>MX</i> Quad Ancillary Modules form a versatile new range of multiple input and output modules for use with <i>MX TECHNOLOGY</i> systems1.</p> <ul style="list-style-type: none"> • QIO850 - Quad Input / Output module – provides four monitored inputs and four relay outputs • QMO850 - Quad Monitored Output module – provides four monitored outputs • QRM850 - Quad Relay Output Module – provides four relay outputs <p>The modules are designed for compactness and ease of installation, and are ideal for applications such as:</p> <ul style="list-style-type: none"> • AS 1668 fan control interfaces, • Plant or security outputs, or • When large numbers of inputs and/or outputs are required. <p>Features common to the Quad Modules are:</p> <ul style="list-style-type: none"> • Built-in <i>MX</i> loop short-circuit isolator with fault indication at the <i>MX1</i> CIE1 when operated • IR link for programming by 850EMT • Selectable interrupt operation to speed up response • Enclosed in protective plastic housing, with an optional IP66 enclosure available for applications in challenging environments • Top-hat DIN rail mounting • LED indication of each output state • 24V/48V link selectable Auxiliary supply for outputs • Supervision of Auxiliary supply for presence • Fault indication of stuck relay contacts - not operating when switched on. 	<table border="0"> <thead> <tr> <th></th> <th>QIO850</th> <th>QMO850</th> <th>QRM850</th> </tr> </thead> <tbody> <tr><td><i>MX</i> Loop Voltage</td><td colspan="3">20-40Vdc</td></tr> <tr><td>Quiescent Current</td><td>0.58Ma</td><td>1.2mA</td><td>0.58Ma</td></tr> <tr><td>Alarm Current</td><td>3.6Ma</td><td>4.2mA</td><td>3.6Ma</td></tr> <tr><td>Relay Output</td><td colspan="3">2A@30Vdc</td></tr> <tr><td>Aux. Voltage Input</td><td colspan="3">20-55Vdc</td></tr> <tr><td>Input States</td><td>Short cct</td><td>-</td><td>-</td></tr> <tr><td></td><td>Alarm</td><td></td><td></td></tr> <tr><td></td><td>Normal</td><td></td><td></td></tr> <tr><td></td><td>Open cct</td><td></td><td></td></tr> <tr><td>Input EOL</td><td>3k3 Ohm</td><td>-</td><td>-</td></tr> <tr><td>Dimensions (HWD)</td><td colspan="3">134 x 103 x 49 mm</td></tr> <tr><td>Weight</td><td colspan="3">232g</td></tr> <tr><td>Ambient Temp.</td><td colspan="3">-25°C to +70°C</td></tr> <tr><td>Storage Temp.</td><td colspan="3">-40°C to +80°C</td></tr> <tr><td>Relative Humidity</td><td colspan="3">10% to 95% (n/cond.)</td></tr> <tr><td>ActivFire Listed</td><td>afp-3174</td><td>afp-3177</td><td>afp-3175</td></tr> </tbody> </table>		QIO850	QMO850	QRM850	<i>MX</i> Loop Voltage	20-40Vdc			Quiescent Current	0.58Ma	1.2mA	0.58Ma	Alarm Current	3.6Ma	4.2mA	3.6Ma	Relay Output	2A@30Vdc			Aux. Voltage Input	20-55Vdc			Input States	Short cct	-	-		Alarm				Normal				Open cct			Input EOL	3k3 Ohm	-	-	Dimensions (HWD)	134 x 103 x 49 mm			Weight	232g			Ambient Temp.	-25°C to +70°C			Storage Temp.	-40°C to +80°C			Relative Humidity	10% to 95% (n/cond.)			ActivFire Listed	afp-3174	afp-3177	afp-3175
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 <p>Generation 6 <i>MX</i> Universal Fire & Gas Detector Module Item No 577.800.006</p>	<p>The DDM800 – Universal Fire & Gas Detector Module is an <i>MX</i> addressable module designed to monitor and signal alarms from:</p> <ul style="list-style-type: none"> • One or two conventional 2-wire detector circuits, or • One or two 4-20 mA sensors (MX4428) <p>These circuits are compatible with a wide range of detectors and include support for fast alarms on 15V/Indicating Manual Call Points (MCP), Intrinsically Safe isolators and detectors, and AVF on smoke detectors.</p> <p>The DDM800 can be <i>MX</i> Loop-powered or use an external 24Vdc power supply. When loop-powered a special low voltage mode can be used with the Tyco 614 series detectors for operation over the full voltage range of the <i>MX</i> Loop. Using an external 24V supply allows a wide range of detectors to be connected, and for the detector circuits to be electrically isolated from the <i>MX</i> Loop.</p>	<table border="0"> <tr><td><i>MX</i> Loop Voltage</td><td colspan="2"></td></tr> <tr><td>Standard Loop pwr.</td><td colspan="2">28 - 40Vdc</td></tr> <tr><td>LV mode & Ext. pwr.</td><td colspan="2">20 - 40Vdc</td></tr> <tr><td>Detector Circuit</td><td colspan="2">22V±1V</td></tr> <tr><td>Max.Cct. Resistance</td><td colspan="2">50 Ohm(Au)</td></tr> <tr><td>Detector Quiescent Current (max. per input)</td><td colspan="2"></td></tr> <tr><td> I.S.mode</td><td colspan="2">1.0mA</td></tr> <tr><td> LV mode</td><td colspan="2">1.5mA</td></tr> <tr><td> Other modes</td><td colspan="2">2.5mA</td></tr> <tr><td>External Power Supply</td><td colspan="2"></td></tr> <tr><td> Voltage</td><td colspan="2">21.9 - 29V</td></tr> <tr><td> Quiescent Current</td><td colspan="2">10mA + Detector Load</td></tr> <tr><td> Alarm/Short Current</td><td colspan="2">52mA</td></tr> <tr><td>Dimensions (HWD)</td><td colspan="2">61 x 84 x 25 mm</td></tr> <tr><td>Weight</td><td colspan="2">100g</td></tr> <tr><td>Ambient Temperature</td><td colspan="2">-25°C to +70°C</td></tr> <tr><td>Storage Temperature</td><td colspan="2">-40°C to +80°C</td></tr> <tr><td>Relative Humidity</td><td colspan="2">10% to 95% (non cond.)</td></tr> <tr><td>ActivFire Listing</td><td colspan="2">afp-3173</td></tr> </table> <p><i>Indoor Applications Only</i></p>	<i>MX</i> Loop Voltage			Standard Loop pwr.	28 - 40Vdc		LV mode & Ext. pwr.	20 - 40Vdc		Detector Circuit	22V±1V		Max.Cct. Resistance	50 Ohm(Au)		Detector Quiescent Current (max. per input)			I.S.mode	1.0mA		LV mode	1.5mA		Other modes	2.5mA		External Power Supply			Voltage	21.9 - 29V		Quiescent Current	10mA + Detector Load		Alarm/Short Current	52mA		Dimensions (HWD)	61 x 84 x 25 mm		Weight	100g		Ambient Temperature	-25°C to +70°C		Storage Temperature	-40°C to +80°C		Relative Humidity	10% to 95% (non cond.)		ActivFire Listing	afp-3173												
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 <p>Generation 6 MX Detector Input Module Item No DIM800</p>	<p>The DIM800 Addressable Detector Input Module interfaces two conventional detector circuits onto the MX addressable loop. Each circuit can support 3mA of detector quiescent current and requires a 4k7 Ohm EOL (End Of Line) resistor.</p> <p>The DIM800 requires a suitably rated external 24V supply to power the detector circuits. On the MX4428 Control and Indicating Equipment (CIE) the two circuits are treated as a single addressable point; either circuit in alarm will put the point into alarm. Unused circuits must be terminated with an EOL.</p> <p>The DIM800 is supplied as an open circuit board (PCB) with mounting hardware and EOL resistors and must be fitted in a suitable enclosure.</p>	<p>Loop Voltage 20V to 40Vdc Quiescent Current 280µA Alarm State Current 280µA Detector Load 3mA (max. per input) Detector EOL 4k7 Ohm External Supply 18 to 28.7Vdc Current per Circuit 7.5mA Alarm Current 30 to 50mA Max. DIM800 per Loop 200/250 Ambient Temperature -25°C to +70°C Storage Temperature -40°C to +80°C Relative Humidity 10% to 95% (non cond.) Dimensions (HWD) 61 x 84 x 25 mm Wire Size (maximum) 2.5sq. mm ActivFire Listed afp-3179 <i>Indoor Applications Only</i></p>
 <p>Generation 6 MX Loop Powered Sounder Module Item No 577.800.011</p>	<p>The LPS800 MX addressable device provides a loop-powered controllable output that can supply up to 75mA to 24V rated load devices, such as sounders, relays, etc. It also provides supervision of the wiring to the loads. Therefore each load device must have an integral series diode, or one must be fitted externally to allow the reverse voltage supervision to work. A 27k ELD resistor is required.</p> <p>The wiring to the load devices can be arranged as a spur (Class B), or as a loop (Class A) so that an open circuit does not stop operation of the devices.</p>	<p>Loop Voltage 20V to 40Vdc Quiescent Current 450µA Operated Current (<8mA load) 12mA Operated Current (>8mA load) Load Current + 4mA Output Current (maximum) 75mA Output EOL 27k Ohm 0.5W Max. LPS800 per Loop 200/250 Ambient Temperature -25°C to +70°C Storage Temperature -40°C to +80°C Relative Humidity 10% to 95% (non cond.) Dimensions (HWD) 61 x 84 x 25 mm Wire Size (maximum) 2.5sq. mm <i>Indoor Applications Only</i></p>
 <p>Generation 6 MX Sounder Notification Module Item No SNM800</p>	<p>The SNM800 MX Addressable Sounder Notification Module provides a switched output that may be used to power sounders, extinguishing devices or other auxiliary equipment from an external supply. The output is activated in response to a command from the MX Control and Indicating Equipment (CIE).</p> <p>The wiring to the controlled devices can be supervised for open and short circuit fault conditions and the power supply for the devices can be optionally supervised.</p> <p>When supervision is required, each output device (sounders, etc.) must have a suitable diode wired in series (if not already contained in the device) so that End of Line (EOL) resistor supervision can be used.</p>	<p>Loop Voltage 20V to 40Vdc Quiescent Current 450µA Operated Current (LED on) 3mA External Supply 18 to 28.7Vdc Output Current (maximum) 2A Output Current EOL 27k Ohm 0.5W Max. SNM800 per Loop 200/250 Ambient Temperature -25°C to +70°C Storage Temperature -40°C to +80°C Relative Humidity 10% to 95% (non cond.) Dimensions (HWD) 61 x 84 x 25 mm Wire Size (maximum) 2.5sq. mm ActivFire Listed afp-3169 <i>Indoor Applications Only</i></p>
 <p>Generation 6 MX Line Isolator Module Item No 545.800.004</p>	<p>The LIM800 is an MX Addressable Loop Isolator Module that can be used to provide short circuit isolation between zones or portions of the MX addressable loop. LIM800s are installed at appropriate positions around the MX loop to monitor the loop voltage either side of the device. If the voltage drops to zero volts (e.g. due to a short), the two LIM800s either side of the short open their electronic switches and isolate the shorted section allowing the rest of the loop to be driven by the MX Control and Indicating Equipment (CIE).</p> <p>The LIM800 includes an additional spur output that can be wired to additional MX devices (usually all in one zone). If a short occurs on the spur, the two electronic switches in the LIM800 operate and disconnect the shorted spur from the loop. The LIM800 includes a yellow LED to indicate when one of its connections is shorted. The LIM800 supports up to 100 IB units of MX load on each connection, so additional LIM800s can be installed on long sections of cable to isolate each block of devices. Refer to the appropriate CIE manual for technical design specifications.</p>	<p>Loop Voltage 20V to 40Vdc Input Current Normal 80µA Tripped (max.) 10mA Series Resistance (max.) 0.25 Ohm Equivalent Capacitance 0.5nF IB Units between Isolator 100 Max. LIM800 per Loop 200/250 Ambient Temperature -25°C to +70°C Storage Temperature -40°C to +80°C Relative Humidity 10% to 95% (non cond.) Dimensions (HWD) 61 x 84 x 14 mm Wire Size (maximum) 2.5sq. mm <i>Indoor Applications Only</i></p>

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 <p>Generation 6 <i>MX</i> VESDA Interface Kit Item No 516.018.014</p>	<p>The VIO800 is an arrangement of the MIO800 Addressable Multi-I/O Module supplied fitted on to a mounting bracket suitable for installation within a VESDA LaserPLUS or LaserSCANNER. The MIO800's inputs and outputs are wired to the relay outputs and control inputs of the LaserPLUS or LaserSCANNER to allow compatible Tyco <i>MX</i> Control and Indication Equipment (CIE) to monitor and control the VESDA unit.</p> <p>The MIO800 can communicate the following signals from / to the VESDA unit:</p> <ul style="list-style-type: none"> • Input 1 – Fire1 and Urgent Fault • Input 2 – Action and Minor Fault • Input 3 – Alert and PSU Fault • Output 1 – Reset (optional) <p>The Reset signal allows alarms and faults latched on the VESDA unit to be reset from the CIE should this be required. Interrupt operation can be enabled on Inputs 1 and 2 for faster signalling of alarms to the CIE.</p>	<table border="0"> <tr> <td>Loop Voltage</td> <td>20V to 40Vdc</td> </tr> <tr> <td>Quiescent Current</td> <td>480µA</td> </tr> <tr> <td>Operated Current (LED on)</td> <td>3mA</td> </tr> <tr> <td>Max. VIO800 per Loop</td> <td>250</td> </tr> <tr> <td>Ambient Temperature</td> <td>-25°C to +70°C</td> </tr> <tr> <td>Storage Temperature</td> <td>-40°C to +80°C</td> </tr> <tr> <td>Relative Humidity</td> <td>10% to 95% (non cond.)</td> </tr> <tr> <td>Dimensions (HWD)</td> <td>72 x 110 x 18 mm</td> </tr> <tr> <td>Wire Size (maximum)</td> <td>2.5sq. mm</td> </tr> </table> <p><i>Indoor Applications Only</i></p>	Loop Voltage	20V to 40Vdc	Quiescent Current	480µA	Operated Current (LED on)	3mA	Max. VIO800 per Loop	250	Ambient Temperature	-25°C to +70°C	Storage Temperature	-40°C to +80°C	Relative Humidity	10% to 95% (non cond.)	Dimensions (HWD)	72 x 110 x 18 mm	Wire Size (maximum)	2.5sq. mm
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Wire Size (maximum)	2.5sq. mm																			
 <p>MX Module Housing</p>	<p>A variety of ancillary housings are available to fit the <i>MX</i> modules. The standard sized modules (CIM800/DIM800/DDM800/LIM800/LPS800/RIM800/ SMN800) are mechanically compatible with all options.</p> <p>The <i>MX</i> range of Addressable Modules can be fitted to a double gang back box or an empty responder box. The double gang back boxes are available in PC/ABS or aluminium. The responder box is galvanised mild steel and is supplied pre-drilled for up to 4 <i>MX</i> modules, with 16 PCB standoffs.</p> <p>For <i>MX1</i> installations, the <i>MX1</i> loop card mounting bracket (FP1027) provides mounting for 2 standard <i>MX</i> modules or 1 large <i>MX</i> module (MIO800).</p>																			
 <p>DIN Rail Mounting</p>	<p>A DIN rail mounting bracket enables a standard sized <i>MX</i> modules onto a standard 35mm DIN rail by simply clipping the PCB onto four pre-fitted plastic pillars.</p>																			