

Qxx850

Generation 6 *MX* Detection Range Quad Ancillary Modules

Features

- Compatible with *MX* Addressable Loop on VIGILANT *MX1* panels
- Choice of 4 inputs and 4 relay outputs, 4 monitored outputs, 4 relay outputs
- Compact DIN rail mounting saves space
- Built-in loop short-circuit isolator
- Two-way IR communication with 850EMT saves commissioning time

The *MX* Quad Ancillary Modules form a versatile new range of multiple input and output modules for use with *MX TECHNOLOGY* systems¹.

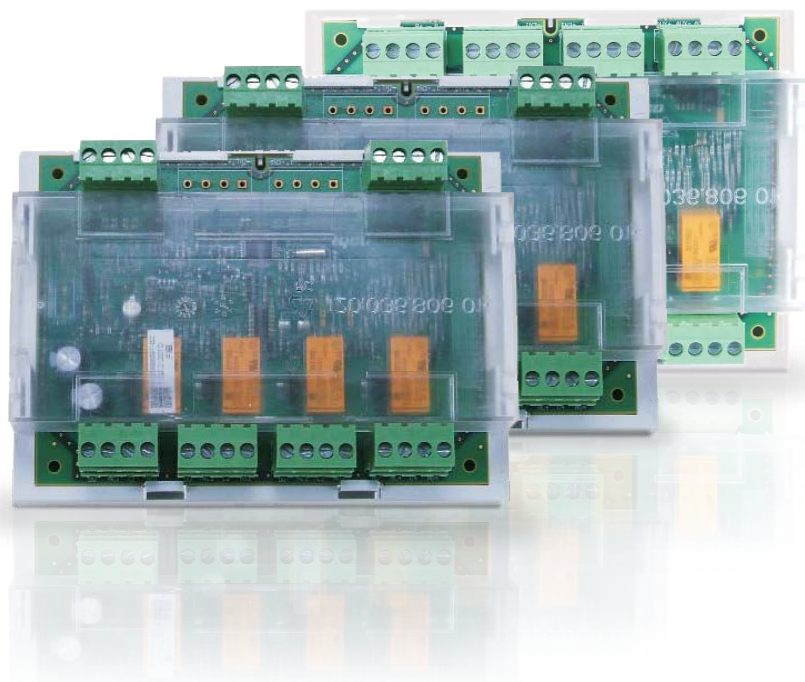
- **QIO850** – Quad Input / Output module – provides four monitored inputs and four relay outputs
- **QMO850** – Quad Monitored Output module – provides four monitored outputs
- **QRM850** – Quad Relay Output Module – provides four relay outputs

The modules are designed for compactness and ease of installation, and are ideal for applications such as:

- AS 1668 fan control interfaces,
- Plant or security outputs, or
- When large numbers of inputs and/or outputs are required.

Features common to the Quad Modules are:

- Built-in *MX* loop short-circuit isolator with fault indication at the *MX1* 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 Auxillary supply for outputs
- Supervision of Auxillary supply for presence
- Fault indication of stuck relay contacts – not operating when switched on.



Specifications

	QIO850	QMO850	QRM850
MX Loop Voltage	20–40Vdc		
Quiescent Current	0.58mA	1.2mA	0.58mA
Alarm Current	3.6mA	4.2mA	3.6mA
Relay Output	2A@30Vdc	2A@30Vdc	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
FPANZ Listed	VF/669	VF/668	VF/670
Part Numbers			
Modules	555.800.071	555.800.070	555.800.073
IP66 Enclosure	557.201.410	557.201.410	557.201.410

1. The *MX* Quad Ancillary Modules are not supported by the MX4428 CIE.

Wiring

Quad 850 Modules - simplified wiring diagrams

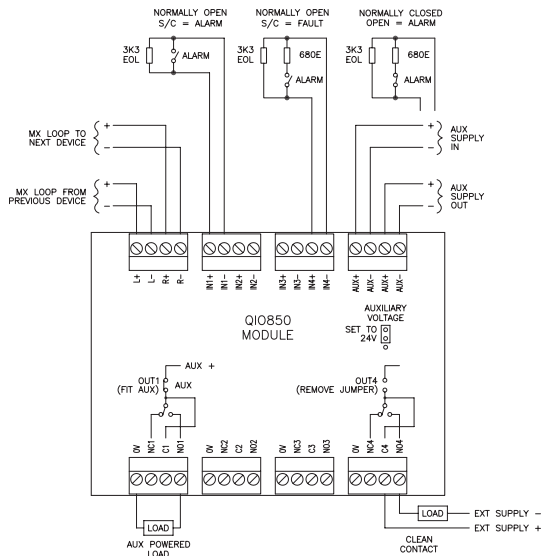


FIG 1. QIO850 Quad Input/Output Module - Terminals

Notes:

1. Max. input cable resistance 50 Ohm.
2. AUX supply 24Vdc nominal to suit loads.
3. AUX supply fault 18Vdc +/-1V.

Output Options:

1. Clean contact - remove output jumper - use C, NO, NC relay as required.
2. Switched AUX O/P - fit output jumper to AUX position. Use NO for switched AUX+ output. Wire to load and back to 0V (AUX-).

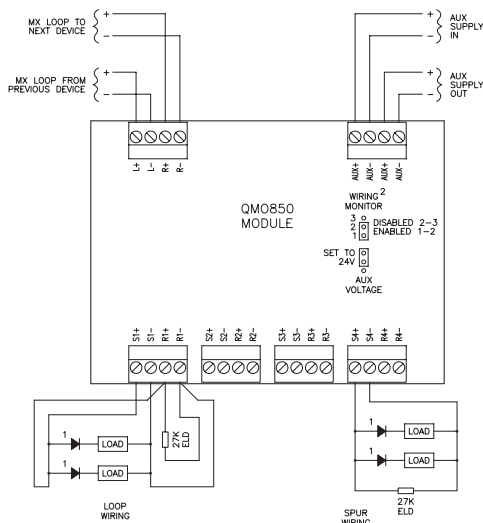


FIG 2. QMO850 Quad Monitored Output Module

Notes:

1. Load requires series diode if not fitted internally.
2. Fit wiring monitor jumper to enabled (1-2) to enable supervision of wiring resistance to AUX supply. Fit to disabled (2-3) to disable.
3. AUX supply 24Vdc nominal to suit loads.
4. AUX supply fault 18V +/-1V.

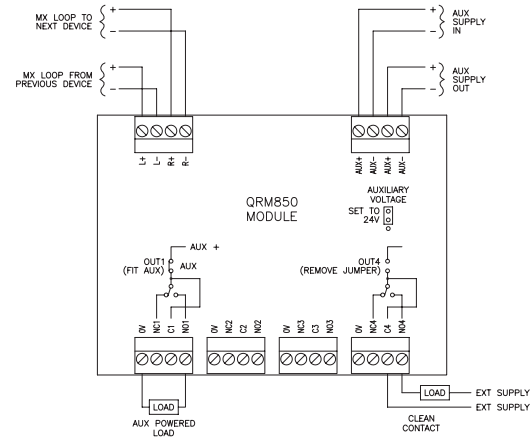


FIG 3. QRM850 Quad Monitored Output Module

Notes:

1. AUX supply 24Vdc nominal to suit loads.
2. AUX supply fault 18Vdc +/-1V.

Output Options:

1. Clean contact - remove output jumper - use C, NO, NC relay as required.
2. Switched AUX O/P - fit output jumper to AUX position. Use NO for switched AUX+ output. Wire to load and back to 0V (AUX-).

QIO850 Features:

- Four change over relay outputs and four monitored inputs each individually programmable for a wide range of applications
- Inputs can monitor normally open or normally closed clean contacts
- Inputs monitored for short/open circuit fault
- Interrupt generation on alarm programmable
- Relay contacts are monitored for "output stuck" conditions
- Outputs link selectable change-over relay contacts or switched AUX supply

QIO850 Applications:

- Damper control
- Sprinkler monitoring
- Interface to conventional panel
- Interface to medical gas panels / gas detection systems
- Interface to extinguishing systems / 3rd party detectors
- Local isolation input and control

QMO850 Features:

- Four polarity reversal outputs switching AUX supply
- Supervised for short and open faults
- Class A or Class B wiring for versatility

QMO850 Applications:

- Conventional sounder monitor and control
- AUX relay monitor and control
- Extinguishing system outputs

QRM850 Features:

- Four change over relay outputs each individually programmable for a wide range of applications
- Outputs link selectable change-over relay contacts or switched AUX supply
- The relay contacts are monitored for "output stuck" conditions

QRM850 Applications:

- A/C control
- Plant control
- Smoke control systems
- Lift control

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VIGILANT, a respected regional brand of Johnson Controls, is a technology leader in the Australian and New Zealand fire detection markets with AS and NZS product approvals. The VIGILANT product line includes a comprehensive range of MX TECHNOLOGY fire detection products and the market-leading QE90 voice evacuation systems. VIGILANT product is widely supported throughout Australia and New Zealand by a network of installation companies, service companies and distributors.

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