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MX1 DIN Module Mtg Bracket (FP1012) Installation Instructions

Installation Instructions

General Description

The VIGILANT *MX1* DIN Module Mounting Bracket (FP1012) provides a means of mounting modules that use the Top-Hat style DIN mounting system into an *MX1* fire alarm system. The bracket can accommodate a maximum of 110mm in width of modules, having sufficient space to mount, for example, a MOXA Ethernet/fibre switch and one Westermo Ethernet Extender.

These instructions provide a summary for installing the bracket, and details some of the various items that can be mounted on the bracket.

The *MX1* DIN Module Mounting Bracket is supplied with the hardware required to mount the bracket.

Bracket Mounting

The FP1012 *MX1* DIN Module Mounting Bracket is mounted onto the 8U or 15U *MX1* gear plate using four M4 x 10 screws supplied with the bracket.

There are two locations the bracket can be mounted on the 15U gear plate, as shown in Figure 1. Each location occupies two (of the three) MX Loop Card Mounting Bracket positions, the left and centre positions as shown in Figure 1. Only the top position is available on 8U *MX1* gear plates. Note the bracket extends to the left of the Loop Card position, so also occupies some of the cabinet space to the left of the gear plate.

The remaining right hand MX Loop Card Mounting Bracket mounting position can only be used when DIN modules fitted, in conjunction with any cables, etc., do not clash with the *MX1* Loop Card bracket or modules mounted on it. This means the right hand position cannot have an MX loop Card (or similar) fitted when the DIN Module mounting bracket has a MOXA switch or Westermo Ethernet Extender fitted.

The choice of using the upper or lower positions on the gear plate will depend on the other items being fitted to the gear plate, and the wiring required for that equipment.
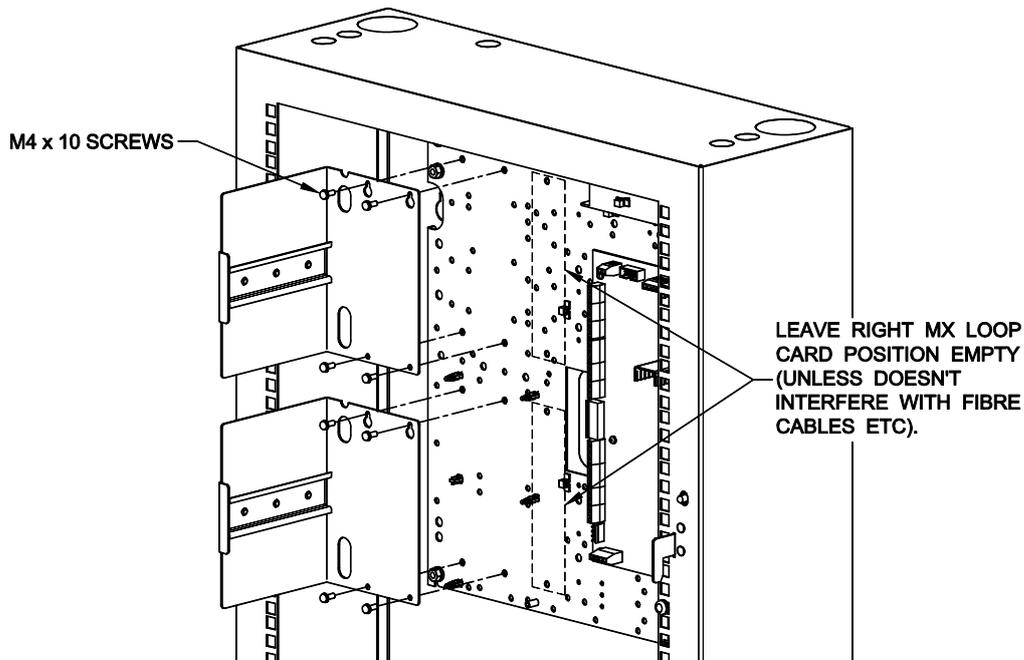

Figure 1 – FP1012 Bracket Mounting Positions on 15U Gear Plate

Note – Some plastic PCB stand-offs may need to be cut from the gear plates to allow the bracket to be mounted.

Bracket Utilisation

The FP1012 bracket can hold a maximum of 110mm in width of DIN rail mounting modules, which is sufficient to mount a MOXA EDS-405A series Ethernet/fibre switch and one Westermo Ethernet Extender.

The MOXA switch and Ethernet Extender mount on the DIN rail directly.

If mounting a combination of units, then the heavier modules, e.g. MOXA switch, should be mounted closest to the gear plate.

Wiring

Refer to the PIB User Manual (LT0519) for detail of connection. Note the requirements to secure fibre and copper cables, and to maintain a minimum bend radius (especially important for fibre).

Route copper wiring into the top and bottom of the MOXA switch and Ethernet Extender down the left hand side of the gear plate using the cable tie mounts provided with the panel and ø4.8 holes provided in the gear plate.

Connect the Earth on the top, rear of the MOXA switch case to the PEM on the bracket using the earth wire and M3 screw provided. Ensure that the bracket is connected tightly to the gear plate.

Parts

The *MX1* DIN Module Mounting Bracket (FP1012) is supplied complete with the following parts:

Qty	Part Code	Description	Used for
1	LM0080	Earth Loom	Earth Fibre Switch to Bracket
5	SC0176	M4x10 Screws	4 to Secure Bracket, 1 Earth Loom to Bracket
1	LT0547	These instructions	-