

## Zonal LED Indicators



### Features

The zonal LED indicator cards are a range of panel mounted peripheral modules that can be added to the *Mx-4000* series of control panels. The cards are available in numerous configurations and provide individual indication of the zone(s) in fire. The units fully support the *Mx-4000* systems *Dynamix* zoning facilities on networked or larger stand-alone systems and can be used to provide individual zonal LED indication at one location.

The Mxp-024F and Mxp-025F are 20 zone units, which are fitted to the front display plate on an *Mx-4000* series control panel. The Mxp-013-050F, Mxp-013-100F and Mxp-200F incorporate 50, 100 or 200 LED indicators respectively and are compatible with all of the *Mx-4000* series multi-loop panels. The zone range on the 100 way card can be assigned using an on board DIL switch and multiple cards can be placed in banks to allow indication of up to 1000 zones using standard units.

The cards are capable of simultaneously displaying all zones in a fire condition and incorporate a unique power saving feature to minimise the power drawn from the control panel in the event of a major fire. Several other options are also available within the *Mx-4000* range for an application where indication of fire signals from zones in addition to the panels' graphical display is required. These options include Advanced Mimic Units, graphics systems and printers.

### Models, Sales Order Parts:

#### Part No:

- Mxp-024F:** 20 Zone LED Card and label fitted to a Mx-4100 control panel
- Mxp-025F:** 20 Zone LED Card and label fitted to an Mx-4200, Mx-4400 or Mx-4800
- Mxp-013-050:** 50 Zone LED Card and label fitted to an Mx-4200, Mx-4400 or Mx-4800.
- Mxp-013-100:** 100 Zone LED Card and label fitted to an Mx-4200, Mx-4400 or Mx-4800
- Mxp-013-200:** 2x 100 Zone LED Cards and label fitted to an Mx-4200, Mx-4400 or Mx-4800

#### Spares:

- Mxs-024:** Replacement 20 Zone LED Card (PCB only)
- Mxs-009-050:** Replacement 50 Zone LED Card (PCB only).
- Mxs-009-100:** Replacement 100 Zone LED Card (PCB only).

### Applications / Limitations:

The zone indicator card can be fitted to an Mx-4000 control panel to provide indication of the zone(s) in fire in addition to the panels graphical display. The LED will illuminate when the corresponding zone enters a fire condition.

The 100 Zone LED card incorporates a DIL switch to set the zone range to be indicated from 1 to 1000. (E.g. 1 –100, 101 –200...901 –1000). The 20 and 50 zone cards display zones 1 – 20 and zones 1 – 50 respectively.

In the event of more than 50 zones entering a fire condition, the LED's will change from continuous to flashing in order to minimise the power drawn from the control panel.

If an Mxp-012 on-board printer is fitted to a panel, and a zone indicator card is also required, use the Mxp-013-050, Mxp-013-100 or Mxp-013-200 modules. The Mxp-025 20 zone LED card cannot also be used.

### Compatibility:

The Mxp-024F can be fitted to an Mx-4100 control panel.

The Mxp-025F, Mxp-013-050F, Mxp-013-100F and Mxp-013-200F can be fitted to an Mx-4200, Mx-4400 or Mx-4800 control panel.

All Zone Indicator cards are supported from panel software revision 16 onwards.

Item	Specification Details		
Panel loading in Quiescent state	3mA		
Panel loading, all LEDS on	Mxp-024F / Mxp-025F 12mA	Mxp-013-50F / Mxp-013-100F 27mA	Mxp-013-200F 54mA
Maximum Working Temperature	50°C		
As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice			

# Zonal LED Indicators

## Installation

The Zonal LED Indicator Cards are normally factory fitted options. These instructions cover the installation, replacement and configuration of spare assemblies.



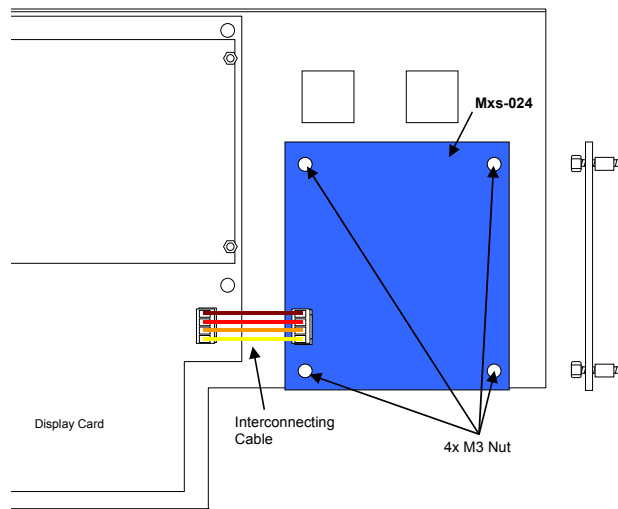
**Isolate ALL sources of power before installing or removing printed circuit boards.**

### ***Mxp-024F***

The Mxp-024F is mounted on the chassis fascia plate using 4x M3 screws.

To replace a card:

- Unplug the ribbon cable from the LED card.
- Remove the 4x nuts and remove the card. Be careful not to lose the spacers.
- Fit the replacement card (Mxs-024) and fix in place with the 4x nuts.
- Re-connect the ribbon cable to the LED card.
- Test the LED operation (refer to Operation Section).

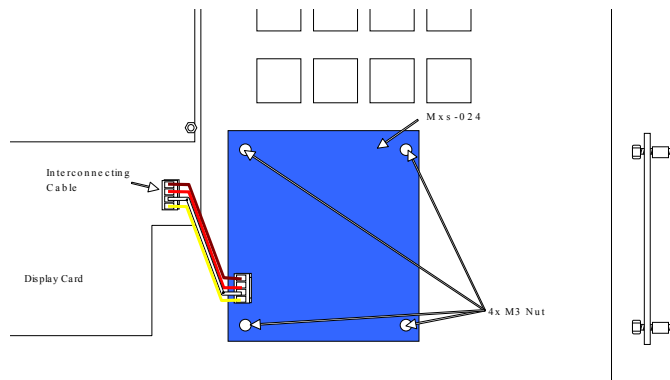


NOTE: If a network interface card (Mxp-003 or Mxp-009) is required and fitted, this is installed on top of the LED card using spacers.

### ***Mxp-025F***

To replace a card:

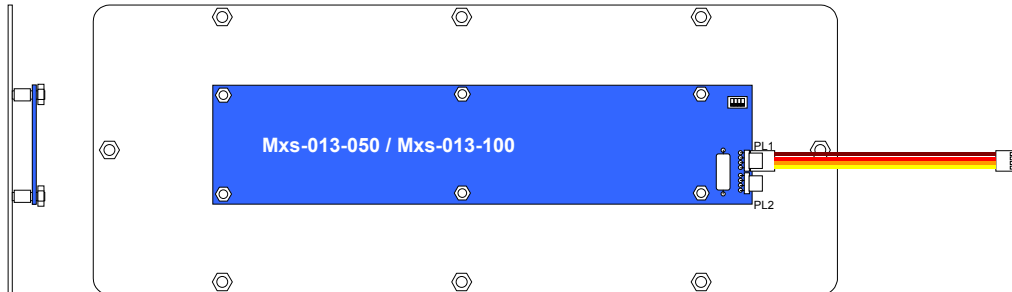
- Unplug the ribbon cable from the LED card.
- Remove the 4x nuts and remove the card. Be careful not to lose the spacers.
- Fit the replacement card (Mxs-024) and fix in place with the 4x nuts.
- Re-connect the ribbon cable to the LED card.
- Test the LED operation (refer to Operation Section).



## Mxp-013-XXXX

The Mxp-013-050, Mxp-013-100 and Mxp-200 are mounted onto a fascia plate on the door. The cards are attached to the fascia plate using 6 nuts.

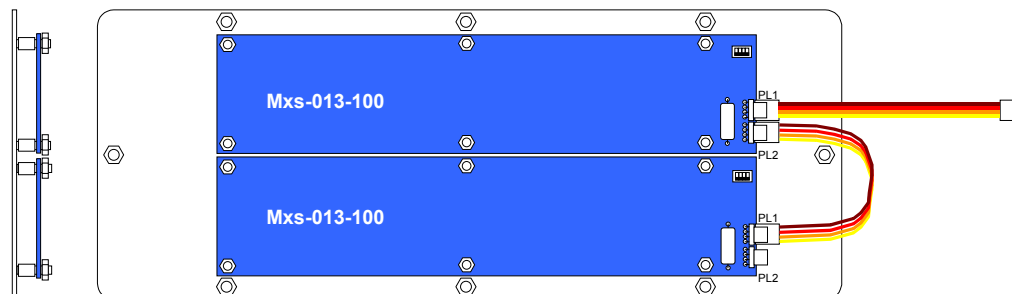
### Mxp-013-050 / Mxp-013-100



To replace a card:

- a) Unplug the ribbon cable from the LED card.
- b) Remove the 6x nuts and remove the card. Be careful not to lose the spacers.
- c) Fit the replacement card (Mxs-013-050 or Mxs-013-100 as appropriate) and fix in place with the 6x nuts.
- d) Re-connect the ribbon cable to PL1 position.
- e) Check the configuration of the Zone range (refer to Configuration Section).
- f) Test the LED operation (refer to Operation Section).

### Mxp-013-200



The Mxp-013-200 consists of 2x 100 LED Indicator cards mounted on the fascia plate and connected together using an interconnecting ribbon cable.

To replace a card:

- a) Unplug the appropriate ribbon cable(s) from the LED card.
- b) Remove the 6x nuts and remove the card. Be careful not to lose the spacers.
- c) Fit the replacement card (Mxs-013-100) and fix in place with the 6x nuts.
- d) Re-connect the ribbon cable to the appropriate positions.
- e) Check the configuration of the Zone range (refer to Configuration Section).
- f) Test the LED operation (refer to Operation Section).

## Configuration

The Mxp-024 and Mxp-025 are pre-configured to show zone numbers 1...20.

The Mxp-013 can be configured from a DIL switch to any of the zone ranges in the table below.

DIL switch (SW1) settings				Zone Range (Note 1)
4	3	2	1	
Off	Off	Off	Off	1 - 100
Off	Off	Off	On	101 - 200
Off	Off	On	Off	201 - 300
Off	Off	On	On	301 - 400
Off	On	Off	Off	401 - 500
Off	On	Off	On	501 - 600
Off	On	On	Off	601 - 700
Off	On	On	On	701 - 800
On	Off	Off	Off	801 - 900
On	Off	Off	On	901 - 1000
On	On	On	On	Test Mode

Notes:

1. Mxp-013-050 indicates the first 50 zones in each of the ranges.

## Operation:

When a zone changes state to a fire condition, the corresponding zone LED will illuminate. The Zone LED Indicators will be turned off when the panel is manually reset.

The Mxp-013 incorporates a power saving feature so that in the event of a major fire with more than 50 zones all in a fire condition occurring in the same zone range, the zone LED's will change from being continuously on to flashing in order to minimise power drawn from the standby battery.

## Testing the Zonal LED Indicators

Enter the "TEST" menu and select "DISPLAY". All of the zonal LED's will then flash on and off for several seconds.