

## Key Switches

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This application note describes how to install optional key switches to a standard Mx-5000 Fire Alarm Panel.

**Models, Sales Order Parts:**

<b>MXP-511:</b>	Access Enable Key Switch (Trapped)
<b>MXP-516:</b>	2-Position Normally Open Key Switched (Trapped)
<b>MXP-517:</b>	2-Position Normally Open Key Switched (Un-Trapped)

**Applications / Limitations:**

To provide additional user control functions by means of secure user keys.  
One switch can be installed in the Mx-5100 standard panel.  
Up to eight switches can be installed in the Mx-5100, Mx-5200 and Mx-5400 panels in Medium, Large and Deep Enclosures.

**Compatibility:**

For use on Mx-5000 panels.

# Installation

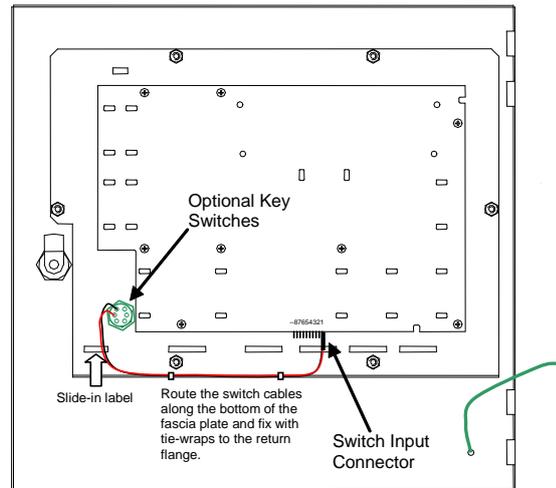
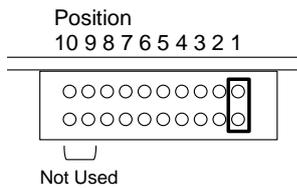
Optional key switches (volt-free) are available to be mounted on the panel fascia plate. These are pre-wired with the appropriate 2-pin connector.

Using a sharp knife, cut through the fascia label using the aperture profile as a template. Insert the switch mechanism and tighten the nut. Route the wiring as shown and plug into the connector in the required switch input position.

Program the required function for each switch input.

The fascia label is provided with a slide-in label pocket for a user text description.

The switch cable connector plugs into the display card connector as shown opposite (SW-1 is shown).



Display Plate Arrangement (Typical).

The switches are not polarity specific. However, it is recommended that the entire switch plugs are inserted into the connector with the red and black leads aligned.

The leads are of a common length suitable for installation of the switch in any position. Fold up any excess cable neatly and apply a tie-wrap to hold in place.

Slide in the required text insert label into the pocket to provide user definition of the switch function.

Standard options are available to cut out in this document.

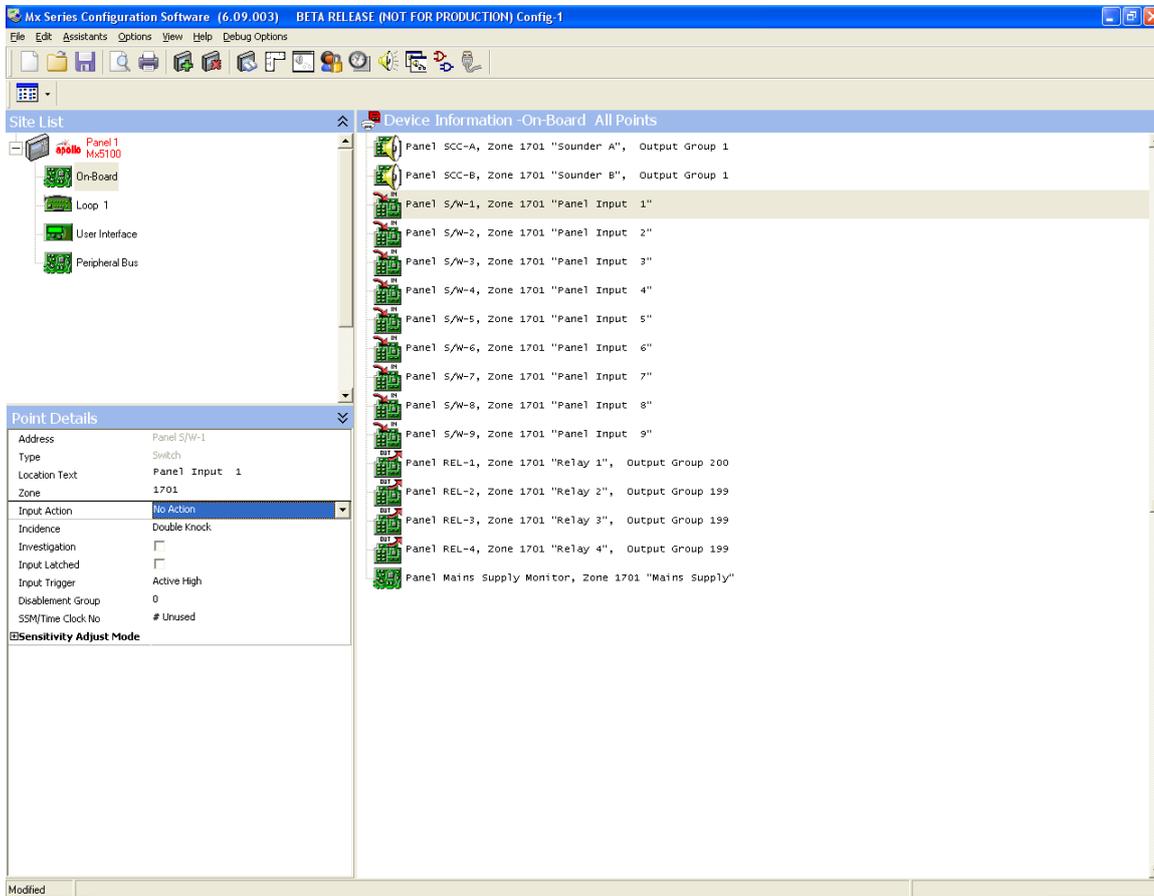
Alternatively, a "Word" template can be downloaded from the Advanced Electronics Ltd website ([www.advancedco.com](http://www.advancedco.com)) to allow printout of customer specific text labels. A standard access enable insert label is provided with Mxp-511.

# Configuration

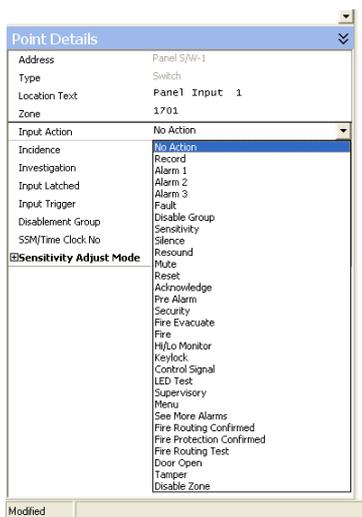
The Switch Input circuits can be configured from the panel display – refer to the product manual for further details. The following shows how to configure using the PC Tool.

In the panel on-board circuits, select the Panel Input required.

Any of the eight panel switch inputs on the display can be used for the key switches (Input 9 is on the base card).



## Select the action required



The list of actions is shown in the diagram opposite.

For Access Enable, select the action "Key Lock".

For other uses, select the appropriate input action.

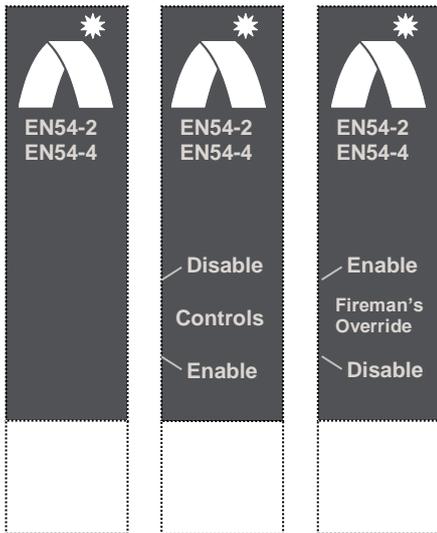
Assign a new zone if required (the default zone number is the same as the panel zone).

It is not normally required to change the parameters for "Input Latched" (default is Not Latched) and "Input trigger" (default is Active High) when used with key switches.

It is recommended that the "Location Text" is changed to indicate the function of the switch input (e.g. Access Enable).

# Slide in Templates

Mx-5100S



Mx-5100M, /L, /D

Mx-5200M, /L, /D

Mx-5400L, /D

