

# EOL Resistors

This document covers the end-of-line (EOL) resistors for all panel variants, and specifies whether they have different resistor values depending on their model variant.

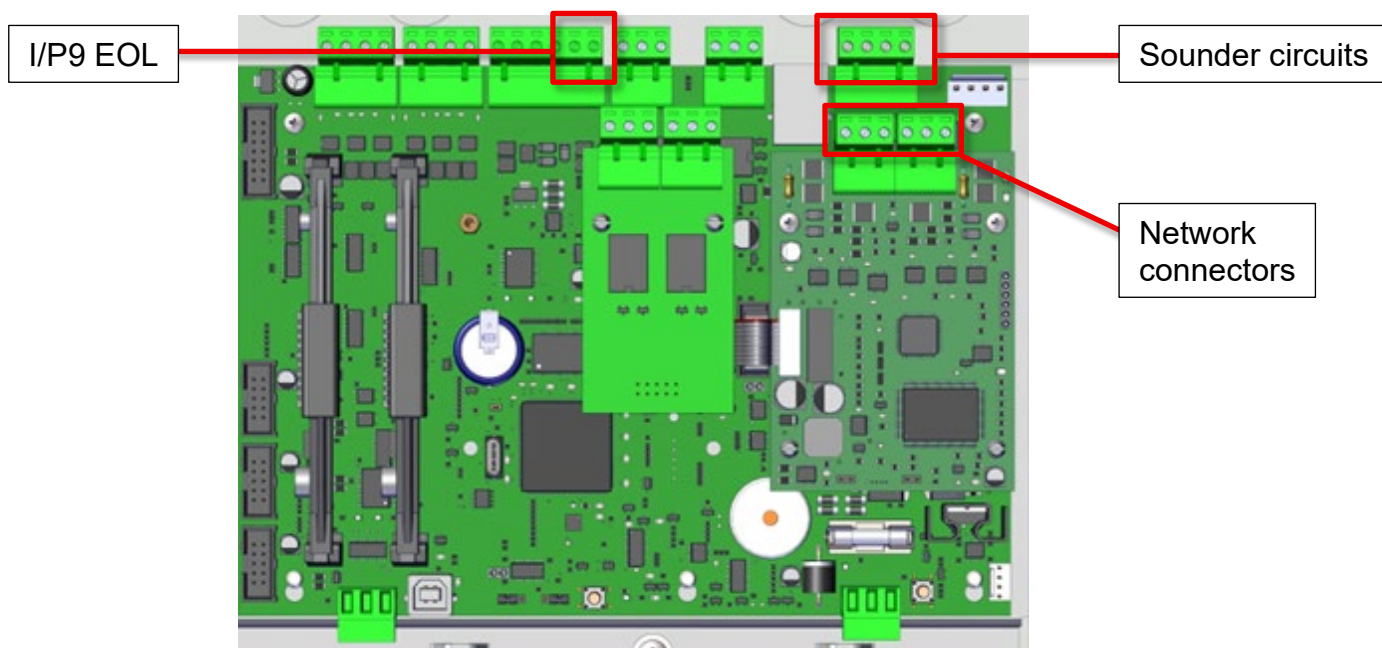


Figure 1 – MxPro 5 (Gen-2) board

## Sounder circuit EOL

On-board sounder circuits require an EOL resistor to be fitted at all times, regardless of whether they are being used or not. This resistor's value is:

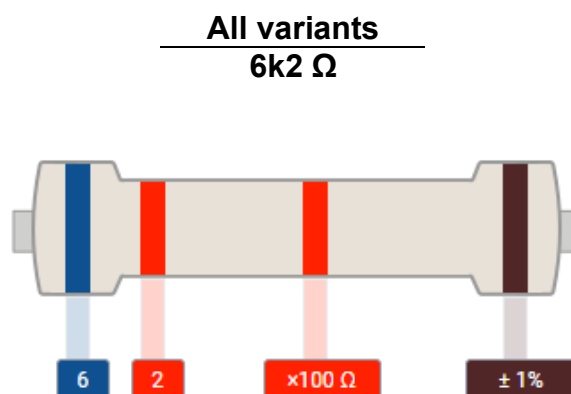
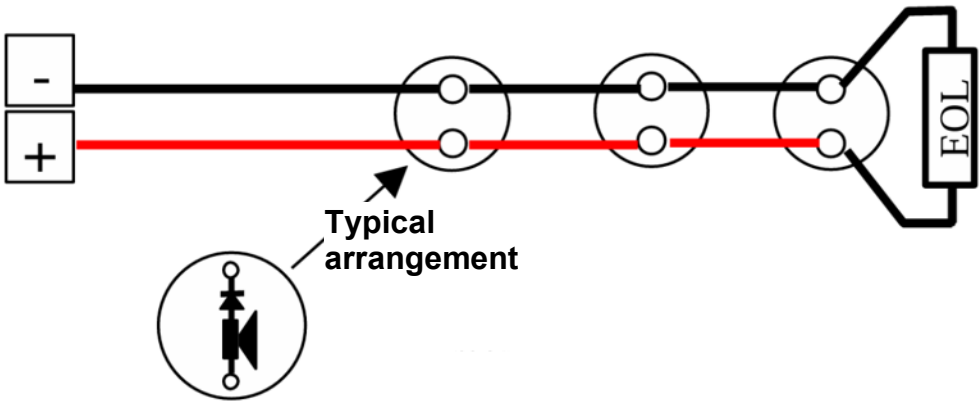


Figure 2 - 6k2  $\Omega$  resistor colour code

1 and 2-loop panels are fitted with two sounder circuits, while 4-loop panels have four sounder circuits. Below is a diagram showing the typical wiring arrangement for a conventional sounder circuit.



### IP/9 EOL

The IP/9 resistors only need to be fitted when IP/9 has been assigned an input action via the ConfigTool. If unused, the panel will not monitor the IP/9 for resistance, and it can be left empty.

If IP/9 is being used, you will need to fit up to two resistors. You will need an EOL resistor on both generations, and you will need an activation resistor on Gen-2 panels.

|            | Gen-1        | Gen-2        |
|------------|--------------|--------------|
| EOL        | 10k $\Omega$ | 3k3 $\Omega$ |
| Activation | Short        | 680 $\Omega$ |

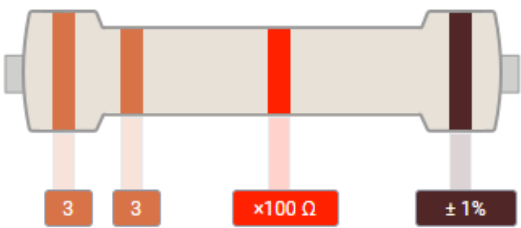


Figure 3 - 3k3  $\Omega$  resistor colour code

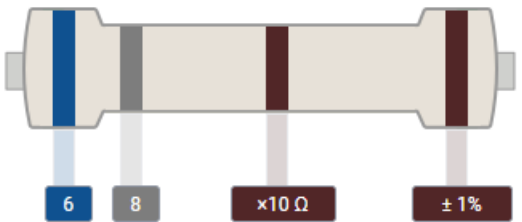


Figure 4 - 680  $\Omega$  resistor colour code

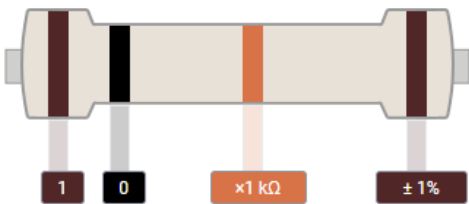
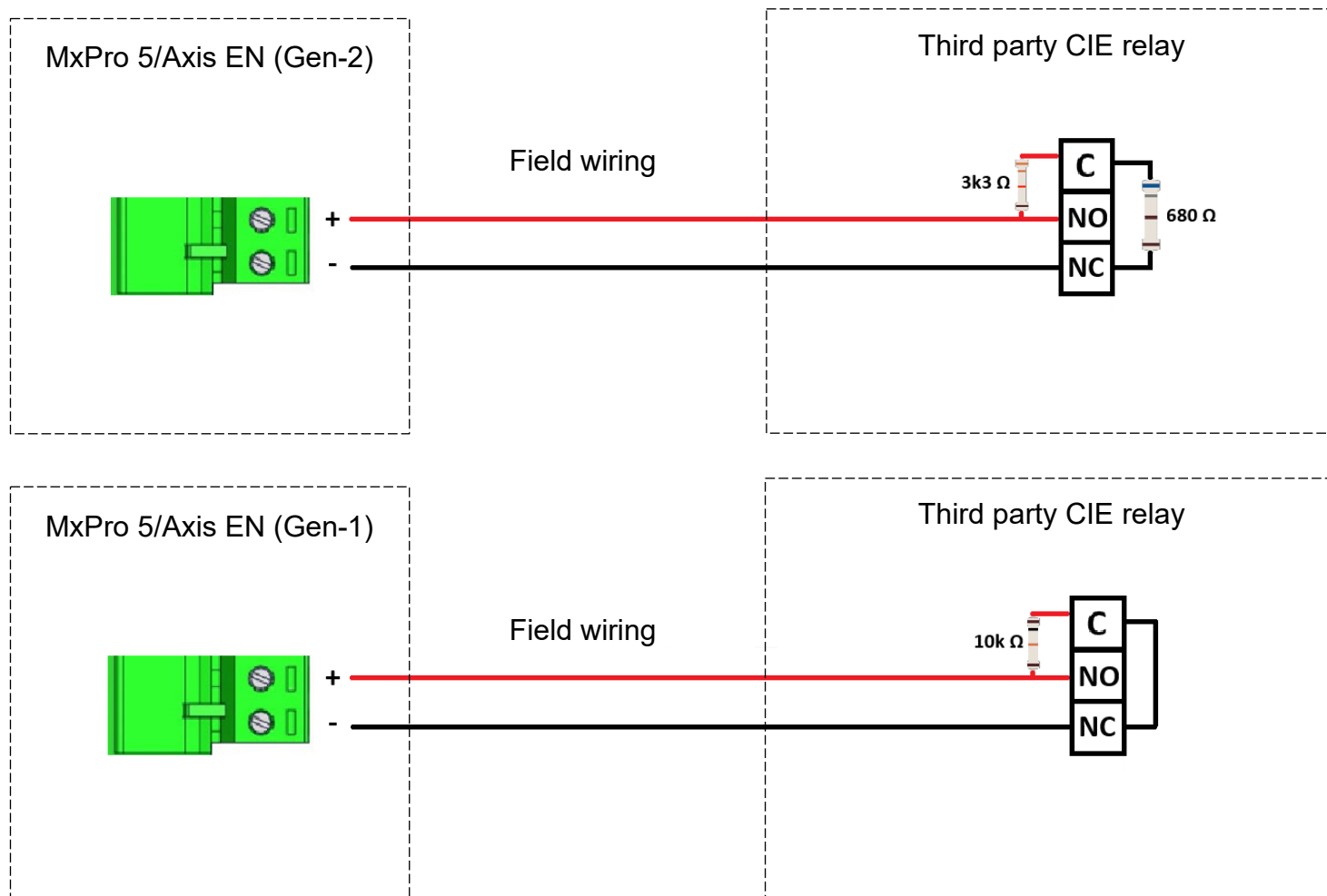


Figure 5 - 10k  $\Omega$  resistor colour code

Below is a typical wiring diagram for I/P9, displaying how to wire it to a relay.



## Network connectors EOL

You may require EOL resistors on your network card if you are using a **standard network**. If you are using a *fault-tolerant* network, you do not require these EOL resistors to be fitted.

If using a standard network, you will have a resistor on the **IN** terminal of the first panel and another resistor on the **OUT** terminal of the final panel. The resistor value is:

All variants  
**150  $\Omega$**

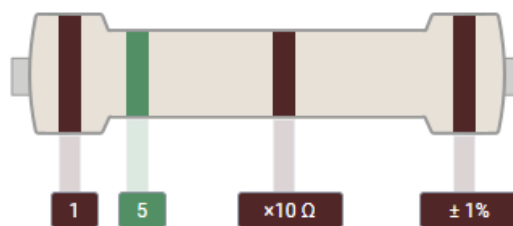


Figure 6 - 150 resistor colour code

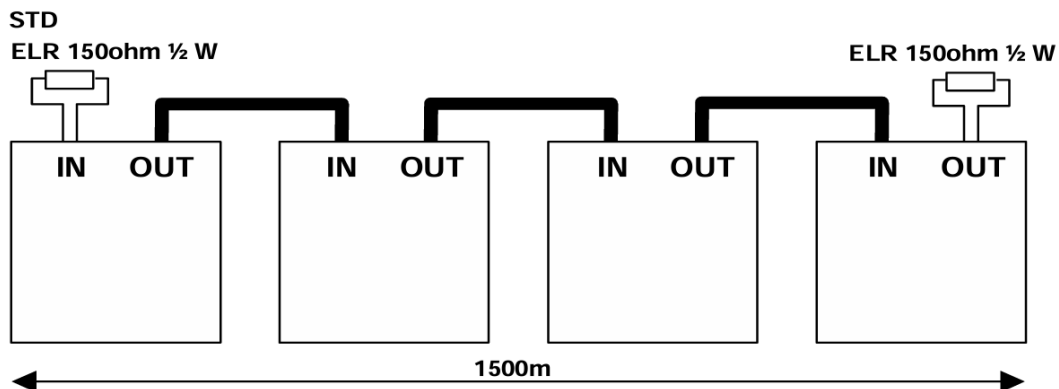
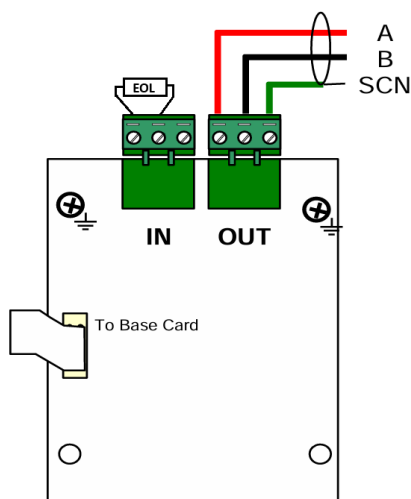
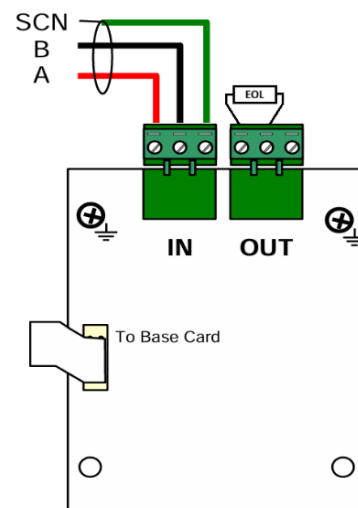


Figure 7 - Standard network wiring configuration



Standard network card wiring configuration  
(first panel wiring).



Standard Network Card wiring configuration  
(final panel wiring).

## Axis AX – notification appliance circuit (NAC)

The Axis AX AX-CTL board features a set of NAC terminals. These terminals have a specified resistor value if wired in Class B configuration. The resistor value is as follows:

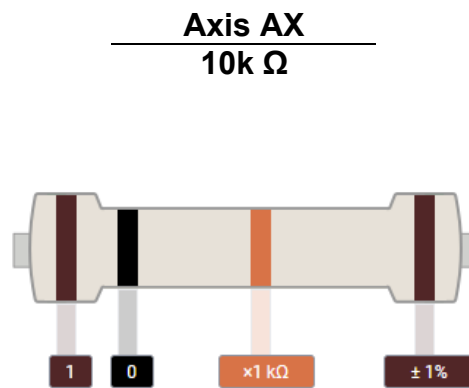


Figure 4 - 10k  $\Omega$  resistor colour code