

EV-Module Fail Safe Actuation

In Fire Alarm Systems, Output devices can be used to actuate many types of equipment. Several of these, such as Magnetic Door Holders, are considered to have Critical functions. Loop powered Output interfaces shall be protected against Cable short circuit and must activate under both Fire Alarm or Loss of Electrical power conditions

Installation Code of Practice BS7273-4: 2015 - Actuation of release mechanisms for doors, details the requirements of Category A Critical Actuation on Pages 9 to 12. To satisfy these requirements you will need to implement the following:

1. Use either and EV-OP Output Module, or EV-SIO Single Input/Output Module, depending on your system requirements.
2. Use an EV-DIN-SCI (-ve Line) Isolator for Short Circuit Protection – Connect the Loop In & Out to the Isolator, then the Connection to the Module is spurred off the Isolator. The use of other Isolators elsewhere in the Loop, such as EV-MCP2-SCI Call Point or EV-B-SCI Base, is recommended.
3. In the Point Details section of the PC Config tool check the “Invert Output” box for the appropriate Output Module. Refer figure 1 below.

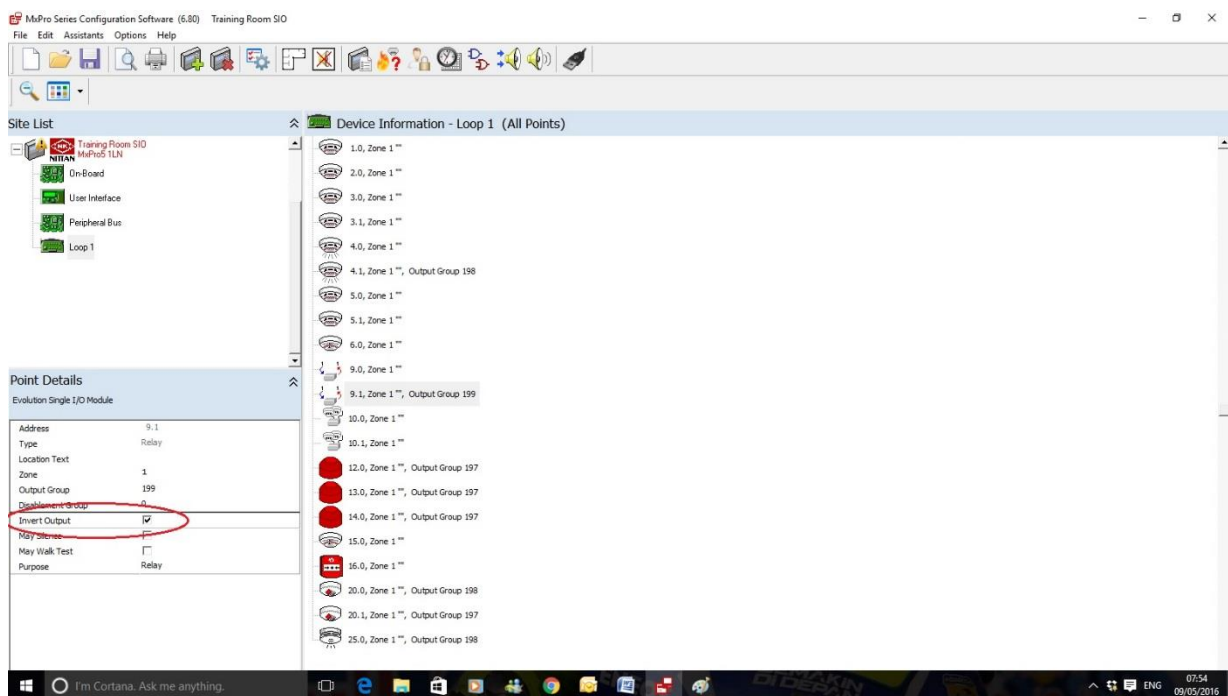


Figure 1

The EV-DIN-SCI will provide protection, such that a short circuit either side of the device will cause the Panel to continue communicating from the opposite side.

With the Module Output set in Inverted state the N/C & N/O markings on the device will be reversed. The LED on the Module will also be permanently On to indicate it is in Fail safe mode. In the event of either Loss of Loop Power, or a Fire Alarm, the Module will change state.

If you need any further guidance please contact Nittan Technical Support:

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