

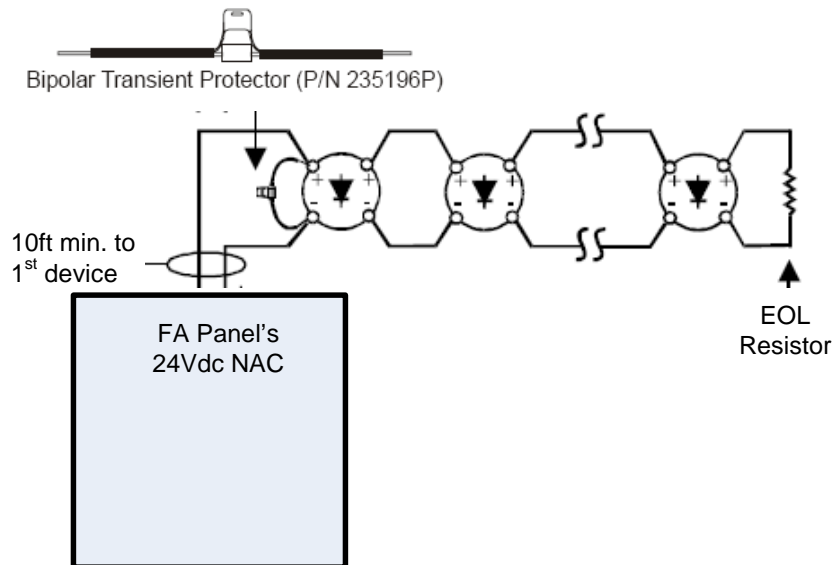
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Subject: Electromechanical Fire Alarm Signals & Electrical Noise

Electromechanical devices, such as bells and explosion proof horns, can generate a lot of electrical “noise” on the wires they are connected to when they are operating. This noise can cause random troubles on fire alarm panels and booster power supplies, as well as strobes to not flash properly. To help alleviate this problem, at a minimum there are certain steps that should be taken...

Edwards offers a bipolar transient protector, part number 235196P, which should be installed across the incoming plus and minus of the first electromechanical device on a NAC (signal circuit). In addition, the device should be located at least 10 feet away from the fire alarm panel or booster power supply. If there are any strobes being used, they should be on their own NAC, separate from any electromechanical signals.



While the above steps should help in most cases, it may not in all. Depending on the installation, the devices used, and the panels they are connected to, additional measures such as longer wire separation between panel and devices, or even using twisted pair wire for the NAC, may be required.