

4-Way Monitoring Junction Box

SKU: 209-ALJB-4/5-MA

Introduction

The 4-Way Monitoring Junction Box canister uses a low resistance detonator for discharge. When two or more canisters are wired in parallel to be discharged together, the monitoring of any open-circuit in their wiring becomes difficult, because of their low resistance.

The monitoring circuit devised here in this junction box (J-Box) is to overcome this difficulty by arranging the detonators in series through a number of high-current diodes during monitoring, and in parallel during discharge. The change from series to parallel arrangement is achieved by reversing the voltage polarities across the detonators.

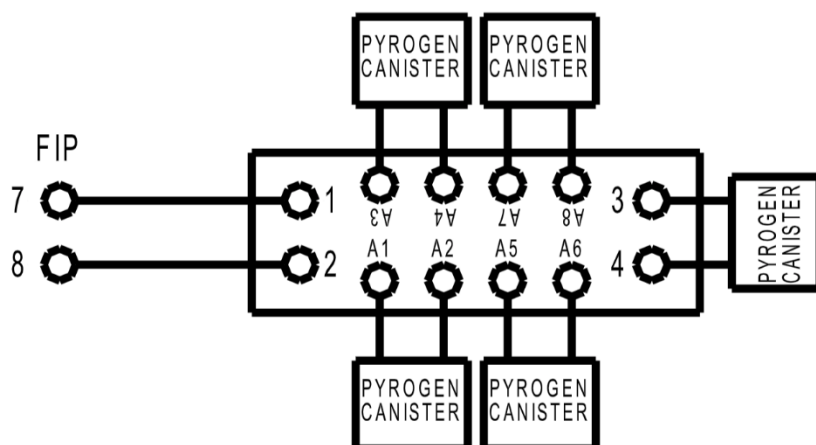
4-Way J-Box Connection Terminals

The 4-way J-box has 2 input terminals (1 and 2) for connection to the fire panel, or to a previous J-box if more than one J-box is used.

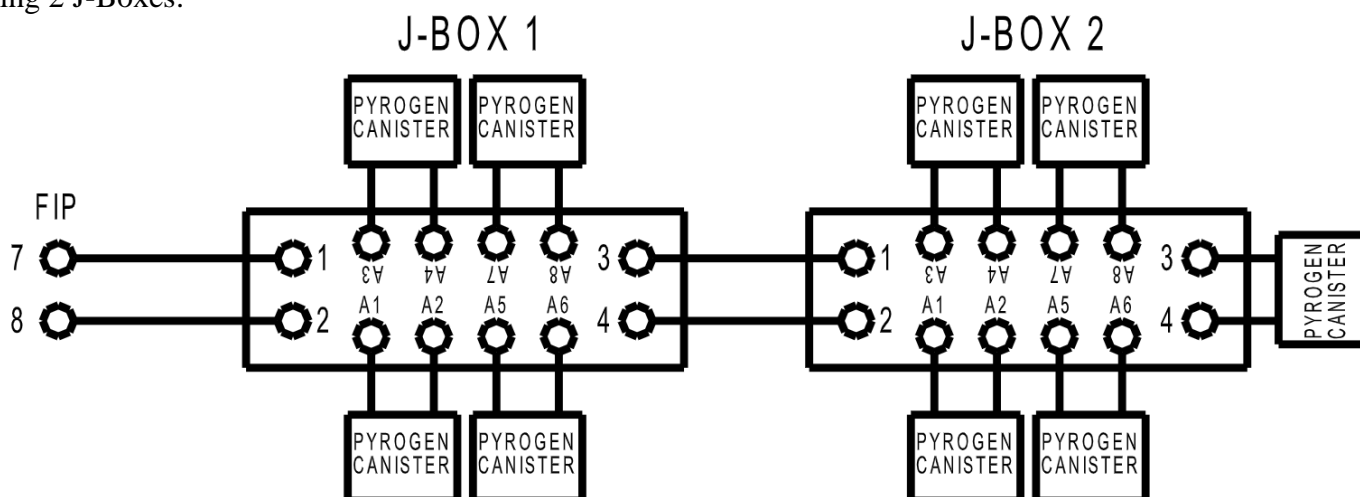
It has 4 pairs of discharge terminals (A1-A2, A3-A4, A5-A6 and A7-A8) for connection to 4 Pyrogen canisters.

It also has 2 output terminals (3 and 4) for connection to the next J-box. If there is no more J-Box to be connected, this set of terminals can be used for another Pyrogen canister, so that the 4-way J-Box can actually monitor and discharge 5 canisters.

Using 1 J-Box:



Using 2 J-Boxes:



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