

TECHNICAL FIELD BULLETIN

Issued: 02/06

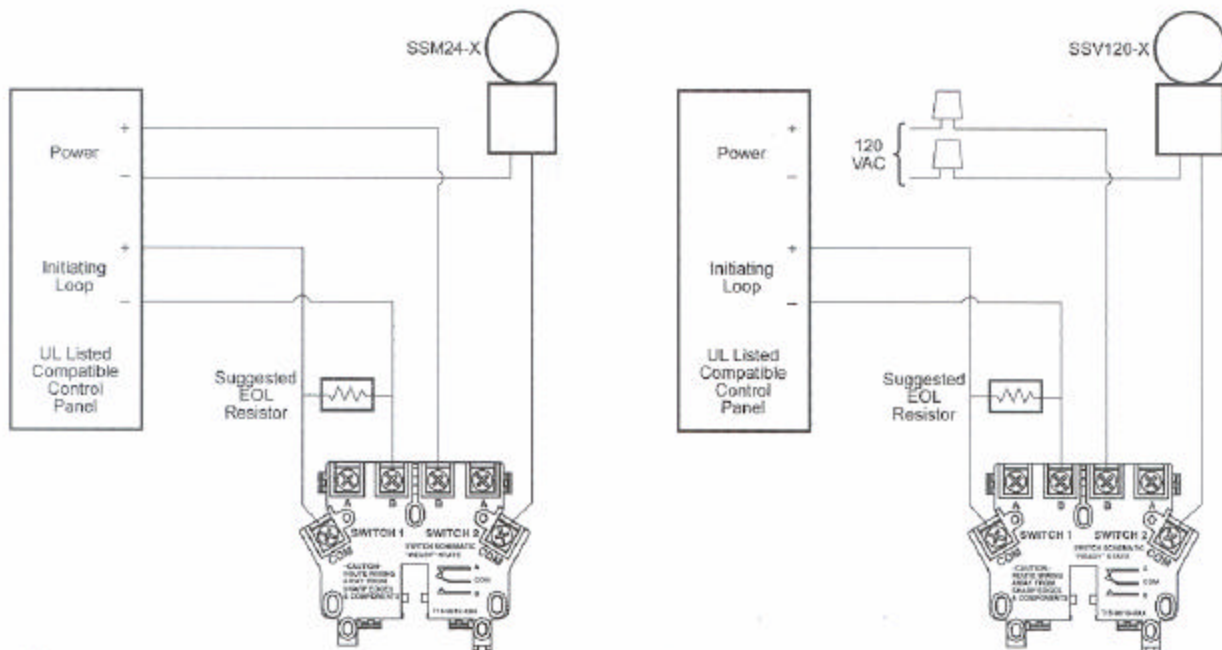
To: All System Sensor Users
From: Systems Applications Engineers – Technical Support
Subject: WFD – FACP wiring and typical bell connection

System Sensor Technical Support would like to address a common question regarding how to wire the WFD waterflow switch in an alarm circuit.

Each WFD has two Form C switches. Both switches have a common terminal, marked COM for a reference point; an A terminal, which is normally closed; and a B terminal, which is normally open. Switches stay in this state when the switch is not in alarm. Both switches are isolated and protected from varying voltages (see drawings for 24vdc and 120vac).

The first switch can be used by the fire alarm control panel's (FACP) initiating loop, which monitors for an alarm condition. In this case, the switch, initiated by the flow of water, changes state and places a short across the end-of-line resistor, which is used for supervision. The FACP recognizes this as an alarm.

When water is flowing - initiating the FACP to register an alarm condition, the second switch closes, allowing the positive 24vdc or 120vac to complete its path to the bell. When the switch closes and the FACP registers the alarm, the bell will sound.



NOTE: System Sensor does not approve, inspect or certify installations. The Authority Having Jurisdiction may refer to the listings or labeling practices of an organization that has evaluated the product and stands in a position to determine compliance with appropriate standards for the installation of listed items.