

# Model ZW4004SS, ZW4104SS & ZW5004

## Integral Supervisory Switch Wiring Instructions



Installation     Maintenance Instructions

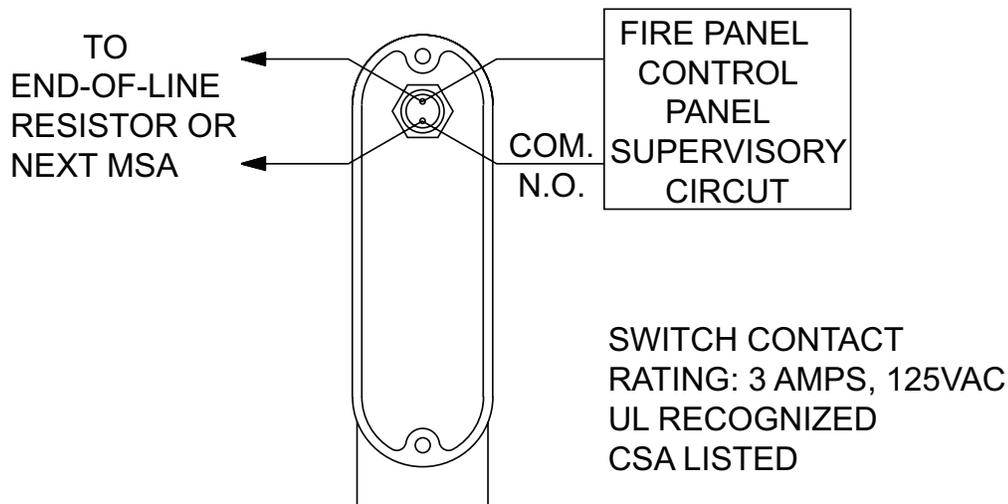
### INSTALLATION INSTRUCTIONS

The Supervisory Switch (SS) is a mechanical supervisory device, with electrical contacts, which initiates a signal to a fire control panel or warning device when the valve on which it is installed is moved toward the closed position. When installed on a ZURN WILKINS Pressure-Tru Fire Valve, the actuating pin of the switch resides in a groove machined into the stem of the upper hand wheel assembly. As the hand wheel is turned to the closed position, the pin is displaced from the groove and in turn depress the switch and thereby initiates an alarm. The Supervisory Switch also contains tamper-proof screws which are supplied to prevent unauthorized altering of switch settings.

To rotate position of switch bracket, loosen the set screw that holds the switch sleeve to the valve. **(DO NOT attempt to rotate switch sleeve without loosening screw this can loosen the packing nut and cause leaks!)** Rotate switch assembly to desired position. Making sure that switch sleeve is tight against packing nut, tighten the set screw. Test switch after rotating according to instruction below.

### ELECTRICAL

The Supervisory Switch (SS) contains one switch which allows connection to a fire control panel. A 3/4" NPT access hole is provided in the housing. In all cases, the indicating device or control panel should be connected to the Supervisory Switch as depicted in Figure 1.



### TROUBLESHOOTING

**NOTE:** Break wire run to provide Electrical Supervision. Never loop an uninsulated section of wire around terminal. Incoming and outgoing wires must be separate.

### TESTING

To test switch operation, connect a test light, buzzer, etc. to the switch leads. After making connections, switch actuation should occur by the time the valve is closed two turns. If switch does not trigger properly within the first two turns or is intermittent during the hand wheel travel, then it must be reset.

**TO RESET SWITCH POSITION IF NOT FUNCTIONING PROPERLY:** Open hand wheel completely. Loosen locknut on switch. Screw switch into the bracket while monitoring the test light or buzzer. When switch makes contact, unscrew switch 1/4 to 1/2 turn. Tighten locknut. Test switch again by running hand wheel from open to closed.

**WARRANTY:** ZURN WILKINS Valves are guaranteed against defects of material or workmanship when used for the services recommended. If in any recommended service, a defect develops due to material or workmanship, and the device is returned, freight prepaid, to ZURN WILKINS within 12 months from date of purchase, it will be repaired or replaced free of charge. ZURN WILKINS' liability shall be limited to our agreement to repair or replace the valve only.

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1747 Commerce Way, Paso Robles, CA 93446 Phone:855-663-9876 Fax:805-238-5766

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