

FEATURES

- Built-in 85db Alarm Sounder
- 2-Wire Conventional Smoke Detector
- Highly stable operation, RF / Transient protection
- Two built-in power / sensitivity supervision / alarm LEDs
- Non-directional smoke chamber
- Built-in magnetic Go / No-Go detector test feature
- Automatic Sensitivity window verification function meets outlined requirements in NFPA 72 Chapter 7, *Inspection, Testing and Maintenance*

OPERATION

Firewolf FW2-S advanced photoelectric smoke detector with internal sounder utilizes two bi-colored LEDs for indication of status. In a normal standby condition, the LEDs will flash red every 7 - 10 seconds. When the detector senses that its sensitivity has drifted outside the UL Listed sensitivity window, the LEDs will flash red every 5 seconds. When the detector senses smoke and goes into alarm, the status LEDs will latch on red.

The units are comprised of an LED light source and silicon photo diode receiving element. In a normal standby condition, the receiving element receives no light from pulsing light source. In the event of fire, smoke enters the detector and light is reflected from the smoke particles to the receiving element. The light received is converted to an electronic signal; these signals are processed in the comparator, and when two consecutive signals exceeding the basic level are received within a specific period of time, the time delay circuit triggers the SCR switch to activate the alarm signal. The status LED lights continuously during the alarm period.

ENGINEERING SPECIFICATION

- Detector head UL Listed; compatible with a UL Listed fire alarm control panel.
- Flashing status LED for visual supervision. When the detector is actuated, the flashing LED latches on steady at full brilliance. The detector may be reset by actuating the control panel reset switch.
- Sensitivity window verification feature.
- Voltage and RF transient suppression techniques to minimize false alarm potential.

Conventional Smoke Detection Firewolf FW2-S



AGENCY LISTINGS

- UL268: Smoke Detectors for Fire Protective Signaling Systems
- NFPA 72 National Fire Alarm Code

ORDERING INFORMATION

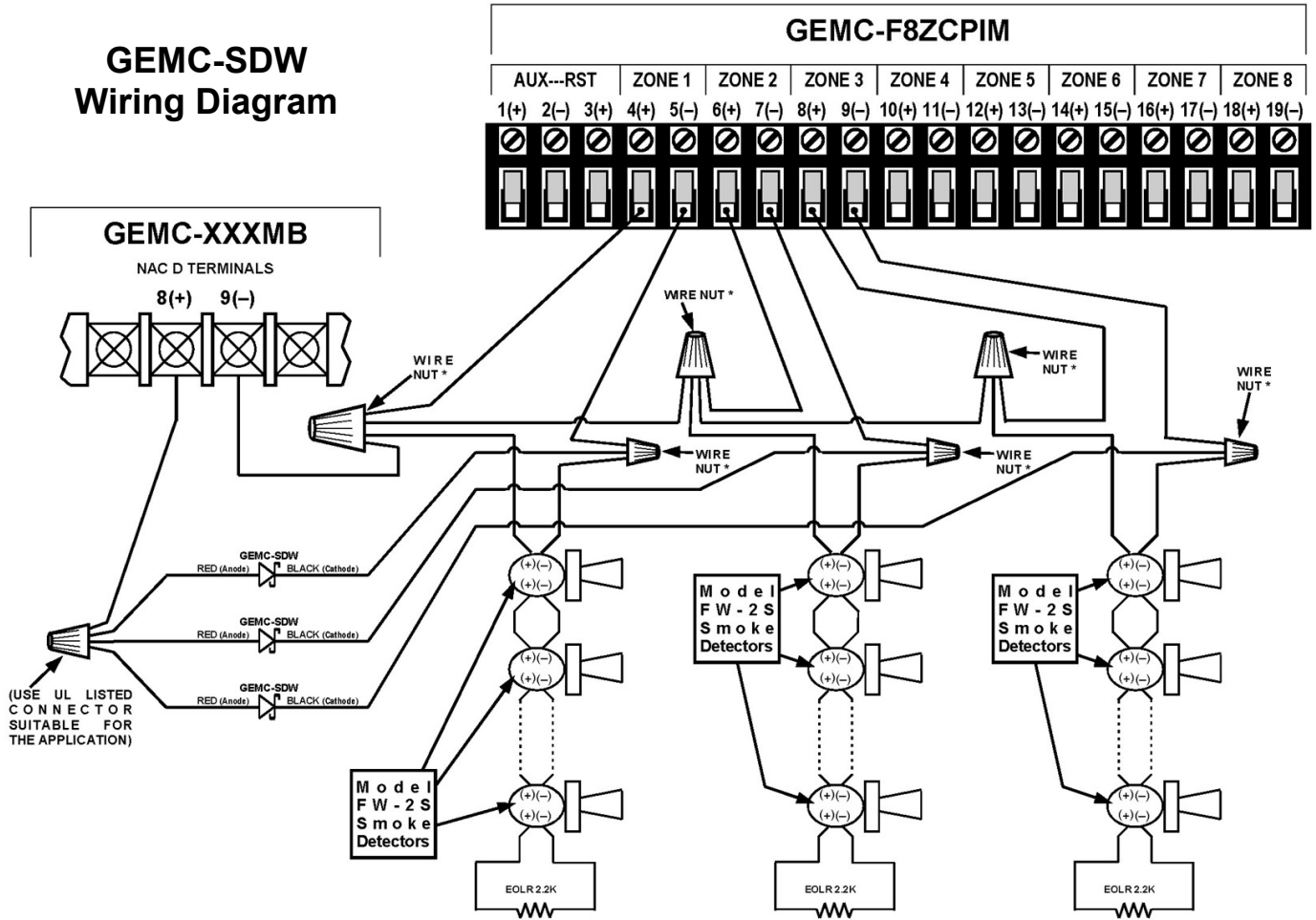
FW2-S: Two-Wire Conventional Smoke Detector with internal 85db sounder

GEMC-SDW: Schottky Diode Wire (use with Commercial and all GEMC Installations)

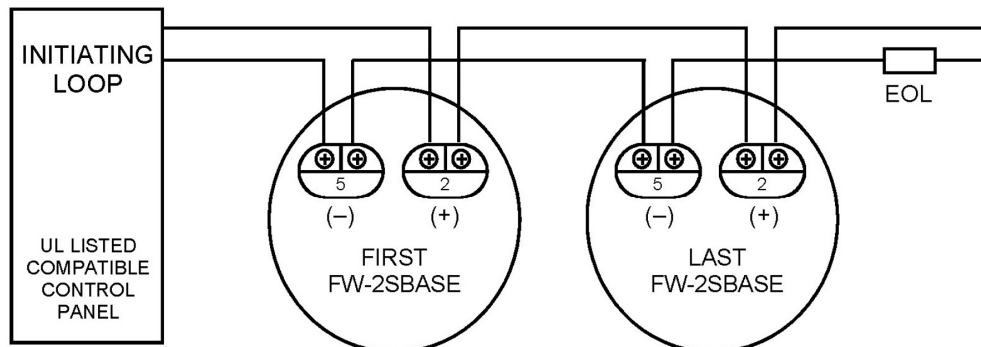
FW2-S SPECIFICATIONS	
Type of Detector	Photoelectric
Working Voltage	8.5 - 14VDC
Voltage Waveform	Filtered DC 15% ripple max.
Maximum Surge Current	100µA
Average Standby Current	43.6µA @ 12VDC
Maximum Alarm Current	60mA
Sensitivity Test Feature	Built-In Test Feature

FW2-S Wiring Diagrams

GEMC-SDW Wiring Diagram



*Use UL listed connector suitable for the application.



Two-Wire Multiple-station smoke detectors when not using internal sounder