



Product

4WTA-B Smoke Detector

Architectural/Engineering Specifications

Smoke detector shall be a System Sensor i3 Series model number 4WTA-B, listed to Underwriters Laboratories UL 268 for Fire Protection Signaling Systems. The detector shall be a combination photoelectric/thermal equipped with a sounder. The detector shall include a mounting base for mounting to 3½-inch and 4-inch octagonal, single gang, and 4-inch square back boxes with a plaster ring, or direct mount to the ceiling using drywall anchors. Wiring connections shall be made by means of SEMS screws. The detector shall allow pre-wiring of the base and the head shall be a plug-in type. The detector shall have a nominal sensitivity of 2.5% per foot nominal as measured in the UL smoke box. The detector shall be capable of automatically adjusting its sensitivity by means of drift compensation and smoothing algorithms. The detector shall provide dual color LED indication which blinks to indicate power-up, normal standby, out of sensitivity, alarm, and freeze trouble conditions.

Electrical Specifications

The Operating Voltage shall be; Nominal: 12/24V non-polarized, Minimum: 8.5V, Maximum: 35V. The Maximum Ripple Voltage shall be 30% peak to peak of applied voltage. The Standby Current shall be 50 μ A maximum average. The Maximum Alarm Current shall be 35. The Alarm Contact Ratings shall be 0.5 A @ 30V AC/DC.

Physical Specifications

The 4WTA-B dimensions (including base) shall be 5.3 inches (134 mm) diameter; 2.0 inches (51 mm) height. The approximate detector weight shall be 7.1 oz. (200 grams). The 4WTA-B detector Operating Temperature Range shall be 32°F–100°F (0°C–37.8°C). The 4WTA-B Operating Humidity Range shall be 0 to 95% RH non-condensing. The 4WTA-B Thermal Sensor shall be 135°F (57.2°C) fixed. The 4WTA-B Freeze Trouble shall be 41°F (5°C). The 4WTA-B Sensitivity shall be 2.5%/ft. nominal. The 4WTA-B Input Terminals shall be 14–22 AWG.

Mounting options for the 4WTA-B detector include; 3½-inch octagonal back box, 4-inch octagonal back box, Single gang back box, 4-inch square back box with a plaster ring, or direct mount to ceiling.

LED Modes

At Power up, the Green LED shall blink every 10 seconds; the Red LED shall blink every 10 seconds. In Normal (standby) mode, the Green LED shall blink every 5 seconds; the Red LED shall be off. In Out of sensitivity mode, the Green LED shall be off; the Red LED shall blink every 5 seconds. In Freeze trouble mode, the Green LED shall be off; the Red LED shall blink every 10 seconds. In Alarm mode, the Green LED shall be off; the Red LED shall be solid.