



COSMOD4W Interface Module Specification

Architectural/Engineering Specifications

The i₄ module shall be a System Sensor i₄ Series model number COSMOD4W listed to UL 864 and UL 975 for Control Units for Fire Protection Signaling Systems. The module shall include provisions for mounting to 4-inch square back box. Wiring connections shall be made by means of SEMS screws. The module shall provide 4 LED indicators that blink or illuminate to indicate communication status, maintenance alert, alarm or freeze trouble conditions, and EZ Walk loop test mode (2-wire module only). The module shall allow communication to i₄ Series and i₃ Series detectors with any UL 864- and UL 975-listed fire alarm control panel capable of utilizing this module. The 2-wire module shall offer provisions for Style D wiring on IDC loops and shall provide a loop testing capability (EZ Walk) to verify the initiating loop wiring.

Electrical Specifications

The Operating Voltage shall be; Nominal: 12/24V non-polarized, Minimum: 10V, Maximum: 35V power limited. The Maximum Ripple Voltage shall be 30% peak to peak of applied voltage. The Standby Current shall be 48 mA maximum (Does not include current draw from attached detectors or EOL relay). The Maximum Alarm Current shall be 75 mA (module current only, does not include reverse polarity current draw from attached detectors). The Alarm Contact Ratings shall be 100 mA @ 36VDC, resistive. The loop wiring resistance shall be 300 Ohms.

Physical Specifications

The COSMOD4W dimensions shall be 6.04 inches (140 mm) diameter; 6.04 inches (154 mm) height;;1.0 inches (25.4 mm) depth. The approximate weight shall be 9.6 oz. (272 grams). The COSMOD4W detector Operating Temperature Range shall be 14°F–122°F (-10°C–50°C). The COSMOD4W Operating Humidity Range shall be 5 to 95% RH non-condensing.. The COSMOD4W Input Terminals shall be 14–22 AWG.

Mounting options for the COSMOD4W include; 4-11/16" square back box; or placement inside a metal enclosure.

LED Modes

At Power up, the Green LED shall blink every 5 seconds. In Normal (standby) mode, the Green LED shall blink every 5 seconds; the Yellow LED shall be off; the Red LED shall be off; the Blue LED shall be off. In Smoke Alarm mode, the Green LED shall be off; the Yellow LED shall be off; the Red LED shall be solid; the Blue LED shall be off. In CO Alarm mode, the Green LED shall be off, the Yellow LED shall be off ; the Red LED shall be off; the Blue LED shall be solid. In Smoke Alarm and CO Alarm mode, the Green LED shall be off, the Yellow LED shall be off; the Red LED shall be solid; the Blue LED shall be solid. In Smoke Trouble mode, the Green LED shall blink every 5 seconds; the Yellow LED shall be off; the Red LED shall blink every 5 seconds; the Blue LED shall be off. In Smoke Freeze Trouble mode, the Green LED shall blink every 5 seconds; the Yellow LED shall be off; the Red LED shall blink every 10 seconds; the Blue LED shall be off. In CO Trouble mode, the Green LED shall blink every 5 seconds; the Yellow LED shall be off ; the Red LED shall be off; the Blue LED shall blink every 5 seconds. In Loop Wiring Fault condition, the Green LED shall be off; Yellow LED shall be solid; ;the Red LED shall be off; the Blue LED shall be off. In EZ Walk Test mode, the Green LED shall blink every 5 seconds, the Yellow LED shall blink every 5 seconds, the Red LED shall be off; the Blue LED shall be off.