**System Sensor OSI-RI-SS Beam Smoke Detector**

**Architectural/Engineering Specifications**

Smoke detector shall be a System Sensor beam type smoke detector model number OSI-RI-SS, listed to Underwriters Laboratories UL 268 for Fire Protection Signaling Systems. The detector shall be an intelligent reflected beam smoke detector. The detector shall include a transmitter and receiver both within the detector unit (imager). The detector shall include a reflector. The detector shall allow for beam alignment between the detector and the reflector to be done at the detector. The detector shall have automatic sensitivity settings. The detector shall be rated for use in temperatures between 32° F and 100° F. The Operating Humidity Range shall be 0 to 95% RH non-condensing. An internal heater shall be provided to prevent condensation build-up in the detector when installed in low temperatures. An optional heater shall be available for the reflector. Protection range shall be 16 ft. to 328 ft. Optical filters shall be available for a calibrated test to be performed. An optional unit shall be available that shall allow a remote electronic smoke simulated test at ground level.

**Electrical Specifications**

The detector (imager) shall be loop. The Operating Voltage shall be; Nominal: 24VDC, Minimum: 15VDC, Maximum: 32.0VDC. The Maximum Standby Current shall be 14mA at 24 VDC. The Maximum Alarm Current shall be 15mA at 24 VDC.

**Physical Specifications**

The OSI-RI-SS detector dimensions shall be 10.0 inches (254 mm) height; 6.0 inches (152.4 mm) width; 4.5 inches (114.3 mm) depth. The reflector dimensions shall be 7.87 inches (200 mm) wide; 9.06 inches (230 mm) height. The approximate detector weight shall be 2.48 pounds (1.12 kilograms). The approximate shipping weight including the reflector shall be 3.91 pounds (1.77 kilograms). The Input Terminals shall be 14 AWG (2.08 mm²). The detector (imager) shall be adjustable 50° horizontally and 20° vertically. The reflector shall be adjustable 10°.

**LED Modes**

In Normal (standby) mode the local LED shall blink Green and in Alarm mode the local LED shall be solid Red, controlled by the fire panel. In Trouble mode, the local LED shall blink Yellow. During alignment, the arrow LEDs on the detector (imager) shall guide the alignment of the detector (imager) to the reflector.