



Product

InnovairFlex™ Duct Smoke Detector

Architects and Engineering Specifications

The air duct smoke detector shall be a System Sensor InnovairFlex™ D2 Photoelectric Duct Smoke Detector. The detector housing shall be UL listed per UL 268A specifically for use in air handling systems. The flexible housing of the duct smoke detector fits both square and rectangular footprints.

The detector shall operate at air velocities of 100 ft/min to 4000 ft/min (0.5 m/sec to 20.32 m/sec). The unit shall be capable of providing a trouble signal in the event that the sensor cover is removed or improperly installed.

It shall be capable of local testing via magnetic switch or remote testing using the RTS451KEY/RTS151KEY remote test station. Terminal connections shall be of the strip and clamp method suitable for 12–18 AWG wiring.

The InnovairFlex sampling tube may be installed from the front or back of the detector. The tube locks securely into place and can be removed by releasing the front or rear locking tab.

Electrical Specifications

The D2 power supply voltage shall be 8.5-35 VDC. The reset time with RTS451/RTS151 is .03 to 0.3 second. Power up time is 35 second maximum. The alarm response time is 15 second.

Physical Specifications

The D2 rectangular dimensions shall be 14.38 in (37 cm) Length; 5 in (12.74 cm) Width; 2.5 in (6.36 cm) Depth. The square dimensions shall be 7.75 in (19.7 cm) Length; 9 in (22.9 cm) Width; 2.5 in (6.35 cm) Depth. The D2 weight shall be 1.8 lbs (0.82 kg). The D2 operating temperature range shall be –4° to 158°F (–20° to 70°C) and the storage temperature range shall be –22° to 158°F (–30° to 70°C). The operating humidity range shall be 0% to 95% relative humidity non-condensing and air duct velocity shall be 100 to 4000 ft/min (0.5 to 20.32 m/sec).