



Product

InnovairFlex™ Duct Smoke Detector

Architects and Engineering Specifications

The air duct smoke detector shall be a System Sensor InnovairFlex™ D4120 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 multiple footprints from square to rectangular.

The InnovairFlex D4120W watertight 4-wire photoelectric duct smoke detector is UL listed as a watertight enclosure providing protection against falling dirt, rain, windblown dust, splashing and hose directed water. It's also environmental rating NEMA4.

The detector shall operate at air velocities of 100 feet per minute to 4000 feet per minute (0.5 to 20.32 meters/second). The unit shall be capable of controlling up to 50 air handling systems when interconnected with other detectors. The detector shall be capable of providing a trouble signal in the event that the front cover is removed.

It shall be capable of local testing via magnetic switch, test button on the cover, or remote testing using the SSK451/RTS2 Multi-Signaling Accessory or 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 power supply voltage shall be 20-29 VDC, 24 VAC 50-60 Hz, and 120 VAC 50-60 Hz. The reset time with RTS451/RTS151 shall be .03 to 0.3 second. Power up time shall be 35 second maximum. The alarm response time shall be 15 second.

Physical Specifications

The D4120 and D4120W 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 D4120 and D4120W weight shall be 2.5 lbs (1.14 kg). The operating temperature range for the D4120 and D4120W shall be –4° to 158°F (–20° to 70°C) and the storage temperature range for the D4120 shall be –22° to 158°F (–30° to 70°C). The D4120 and D4120W 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).