

Addressable In-Duct Smoke Detector Housing Specification

Compliance with standards

The smoke detector used in the In-Duct housing shall be third party approved to EN54 part 7.

Functionality

The In-Duct Housing shall use the Duct-tube principle, whereby air is drawn in through a sampling tube and released back to the ducting by an exhaust tube.

Sample filters shall be provided to minimise the accumulating of dust and dirt.

The air velocity shall have a rating from 2.5m/s to 20 m/s.

A clear Polycarbonate cover shall be used on the In-Duct housing, to provide easy visual inspection of sampling tube filters.

When sufficient smoke is sensed, an alarm signal is initiated at the C.I.E, and appropriate action taken to change over air handling systems to help prevent the rapid distribution of toxic smoke and fire gases throughout the areas served by the duct system.

Test functions

The unit shall have the facility to initiate a remote test from a conveniently located key switch such that the detector housed within the unit shall operate it's test whereby they will simulate an alarm condition and report that condition to the C.I.E.

Smoke detectors.

In-Duct Smoke Detector Housing shall accommodate an intelligent Photoelectric Detector, to provide continuous analogue or digital monitoring and alarm verification from the panel.

Visual indication

The In-Duct Smoke Detector Housing shall provide remote LED output suitable for connection to a conveniently located LED position.

The LED output shall pulse under normal conditions, indicating that the detector is operational and in regular communication with the C.I.E.

The LED output may be placed into steady condition by the C.I.E, indicating that an alarm condition has been detected.

If required, the flashing mode operation of the LED output shall be controlled through the system field program.

Additional requirements

The In-Duct Housing shall when required provide 1 relay output and 24Vdc input.