Wiring

Figure 8 shows how to wire the duct smoke detector and its accessories. Run all field wiring into the detector through the knockouts located at the top of the detector housing.

Configuration

The duct smoke detector is configured at the factory for the lowest sensitivity setting and to generate an alarm event when activated. Depending on the version of the configuration software that you use, you can configure the duct smoke detector to generate an alarm event or a supervisory event when it is activated.

Maintenance and service

Recommended service schedule

Perform a visual inspection upon installation and once every six months thereafter.

Perform an alarm test upon installation and once every twelve months thereafter.

Testing the duct smoke detector

Before testing the duct smoke detector, notify the proper authorities that the system is undergoing maintenance and, unless part of the test, disconnect all auxiliary equipment from its common alarm relay contacts.

Note: You can't initiate an alarm test if the duct smoke detector is in the trouble state.

To test the duct smoke detector's ability to report an alarm condition:

Using an SD-MAG, hold the SD-MAG where indicated on the side of the duct smoke detector for more than 5 seconds

Using an SD-TRK, turn the key switch to the TEST position for more than 5 seconds

Using an SD-TRM, hold the SD-MAG test magnet to the target area for more than 5 seconds

Once activated, verify the following:

The detector's Alarm LED is flashing

If connected, the Alarm LED on the remote test station or LED indicator is flashing

The appropriate event message or visual indication is reported on the fire alarm control panel

After you have finished testing the duct smoke detector, reset the control panel in order to restore the detector to its normal state.

Troubleshooting

The Power LED does not blink

Check the wiring. Repair or replace any loose or missing wiring.

An *internal trouble* event message is displayed on the control panel

Check the cover. Make sure it is attached and secured properly then reset the control panel.

Check the detector's dirty level. Clean if required. See, "Cleaning the duct smoke detector."

Upload the detector's trouble table to determine the problem. Correct the problem then reset the control panel.

Note: Clearing the trouble message from the panel does not remove the trouble from the loop controller's trouble table.

Cleaning the duct smoke detector

Clean the duct smoke detector when it becomes 80% to 99% dirty or sooner if conditions warrant.

Caution: Before cleaning the duct smoke detector, notify the proper authorities that the fire alarm system is undergoing maintenance and take steps to prevent the control panel from responding to a false alarm.
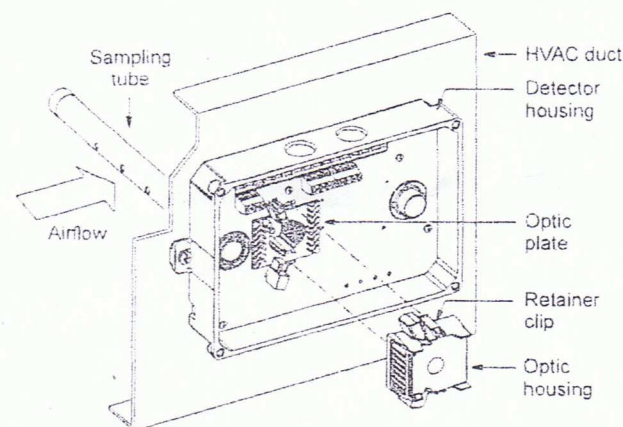

Figure 6: Detector cleaning diagram