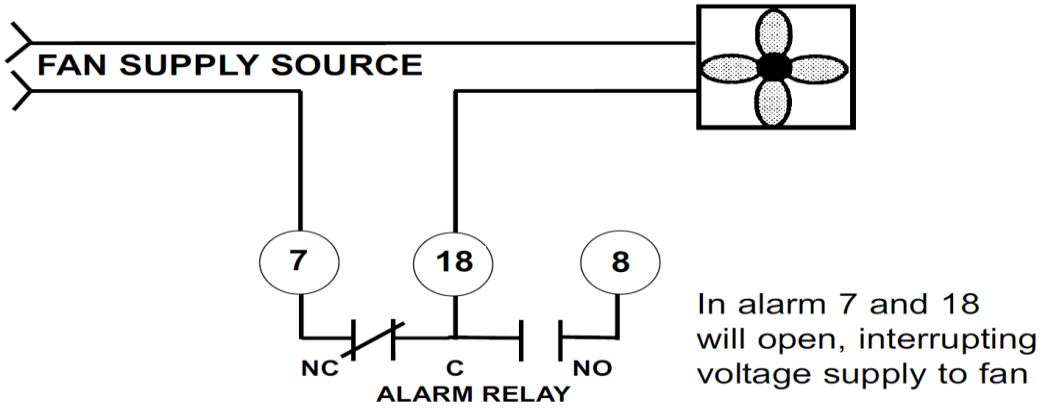
SL-2000 FAQs

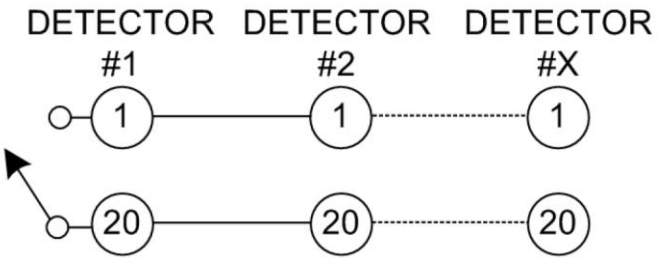
Q: How can I wire the SL-2000 and SL-701 series duct detector to shut down a fan or roof top unit?

A: Use the designated Normally Closed and Common alarm relay terminals to interrupt power to the equipment requiring a shutdown in the event of smoke in the ductwork. On the SL-2000, use NC and C alarm relay terminals.

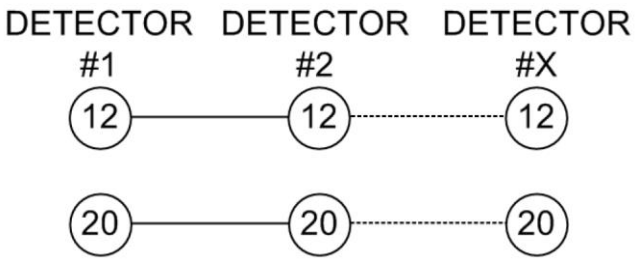


Q: How can I interconnect multiple SL-2000 series duct detectors for a global shutdown?

A: To interconnect multiple SL-2000 duct detectors for a global shutdown, connect terminals 12 and 20 from the first detector to terminals 12 and 20 on the second detector. Continue this wiring configuration for additional detectors (up to 30). When using a remote key test/reset station, you will also connect terminals 1 together on each detector.



Common test/reset. 30 detectors max.
(Use normally open test/reset switch)



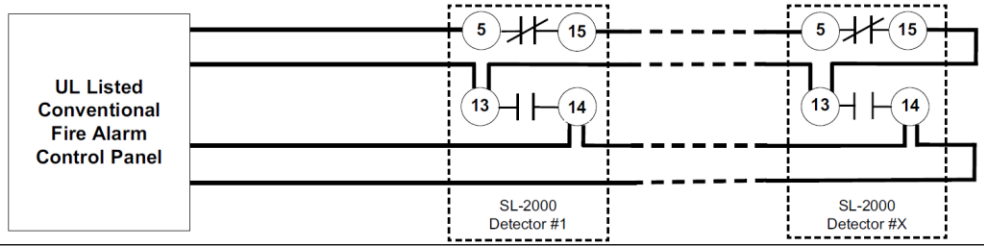
All alarm relays operate with single alarm. 30 detectors max.

Q. How can I wire a fire alarm SLC loop to a SL-2000 series duct detector?

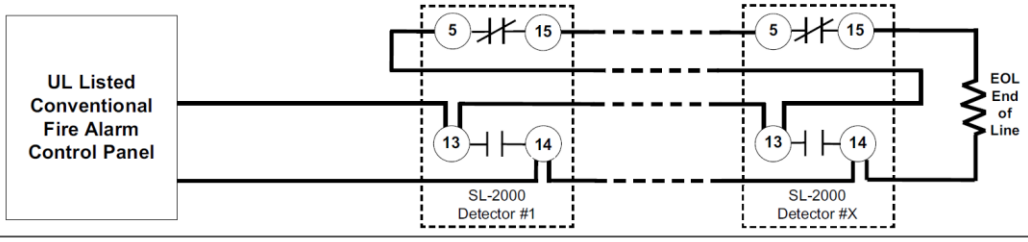
A. To wire a Class A or Class B SLC loop, follow the appropriate wiring diagram included in the install guide. Below is an example of the wiring required for wiring a SLC loop to a SL-2000 series duct detector.

FIRE ALARM CONTROL PANEL WIRING

SAMPLE CONTROL PANEL WIRING - STYLE "D" / CLASS "A" IDC (Supervised - A fault condition will not inhibit an alarm response)



SAMPLE CONTROL PANEL WIRING - STYLE "B" / CLASS "B" IDC (Supervised - A fault condition will not inhibit an alarm response)



Technical Support

AIR PRODUCTS AND CONTROLS — You in Control

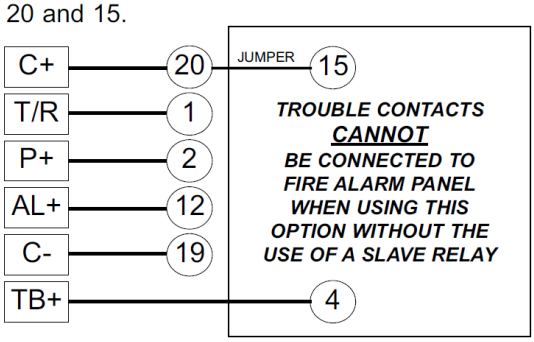
Q. How can I wire remote accessories to a SL-2000 series duct detector?

A: To wire to a remote accessory, connect the designated duct detector terminals to their corresponding remote accessory wire lead/terminal. An example is shown below for wiring the SL-2000 to an MSR or MS model remote accessory.

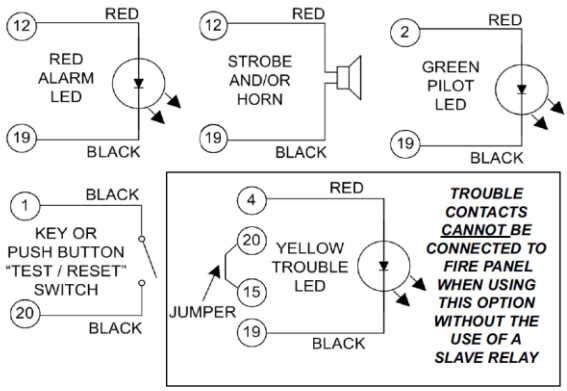
> Note: When wiring to a remote accessory, ensure you are using an Air Products and Controls remote accessory. Our duct detectors are not compatible with competitor's products.

MSR REMOTE ACCESSORY WIRING

A jumper wire must be placed between Terminals 20 and 15.



MS REMOTE ACCESSORY WIRING



Q: How can I test the duct detector?

A: Place the included magnet in the labelled testing location, on top of the housing between the raised sections above the detector head (as indicated on the unit cover). Allow at least five seconds for alarm initiation. Remove the magnet and reset the detector.

If a testing magnet is unavailable, or the duct detector did not include one, use a test gas. The recommended test gas is Solo TG-2000. If both magnet and test gas are unavailable, blow smoke from a cotton wick directly at the head to cause an alarm.

> Note: The use of smoke bombs to perform additional simulated fire conditions, is not recommended nor may it be suited for the detector (ionization or photoelectric) installed.

Q. How often should I test the duct detector?

A. NFPA 72 Table 14.4.3.2 states that duct detectors shall be tested upon initial acceptance, as well as annually. Additionally, a magnehelic differential pressure gauge should be used to ensure the differential pressure between the sample tube and the exhaust tube is between 0.01 and 1.2 inches of water.

Q. How can I clean the smoke detector head and the sample/exhaust tubes?

A. Occasionally the smoke detector head will cause a false alarm condition when there is built up dust and debris inside. To clean this dust and debris, use a can of compressed air and spray into the openings on the head.

The sample and exhaust tubes can also build up with the same dust and debris and cause an incorrect air differential through the detector. These can be cleaned by using a can of compressed air and spraying into the tube openings.