

Duct Smoke Detector (Photoelectric)

Product Overview

The AX-GS-SD Photoelectric Duct Smoke Detector has the option of either a Photoelectric sensor or an Ionisation sensor for high temperature applications, the sensor heads are interchangeable. The sensors samples air currents passing through a duct using a range of sampling tubes and has 2 alarm relay outputs to switch on fans, blowers etc and send an alarm to the BMS or alarm panel. NEMA 4X version is also available for outdoor environment.



Products Features

- Wiring for 24Vdc/24Vac/120Vac/240Vac
- Simple change out of Photo or Ion heads
- Range of sampling tubes for ducts 1' to 12'
- Clear cover for easy visual inspection
- Built in reset/alarm test switch & 2 x alarm relay outputs
- IP65 Version is also available

Product Specifications

Sensor Type:	4 wire Photoelectric
Power Supply:	24Vac/dc or 115/230Vac
Power Requirement:	Standby: 24Vac 55mA 24Vdc 14mA 230Vac 12mA 115Vac 22mA
	Alarm Current: 24Vac 190mA 24Vdc 68mA 230Vac 18mA 115Vac 32mA
Relay Contact Rating:	Resistive load: 2 sets form "C" rated at 10 Amps @ 115VAC Resistive load: 1 set form "A" rated at 2 Amps Resistive load: 1 set form "C" rated at 10 Amps @ 115VAC
Air Velocity:	0.5 to 20m/sec
Ambient Temp. Range:	AX-GS-SD2000-P 0 to +60°C
Humidity:	10% to 85% RH Non-Condensing
Housing Dimensions:	343(L) x 115(H) x 58(D)mm
Protection:	SD2000-P=IP54, SD3000-P= NEMA 4X rated (IP65)
Conformity:	CE marked, UL listed, CSFM, EMC, LVD
Country of Origin:	USA
Assembly Parts:	7" exhaust tube, sampling tube end cap, mounting template, test magnet, and mounting hardware.

Product Order Codes

Order Code

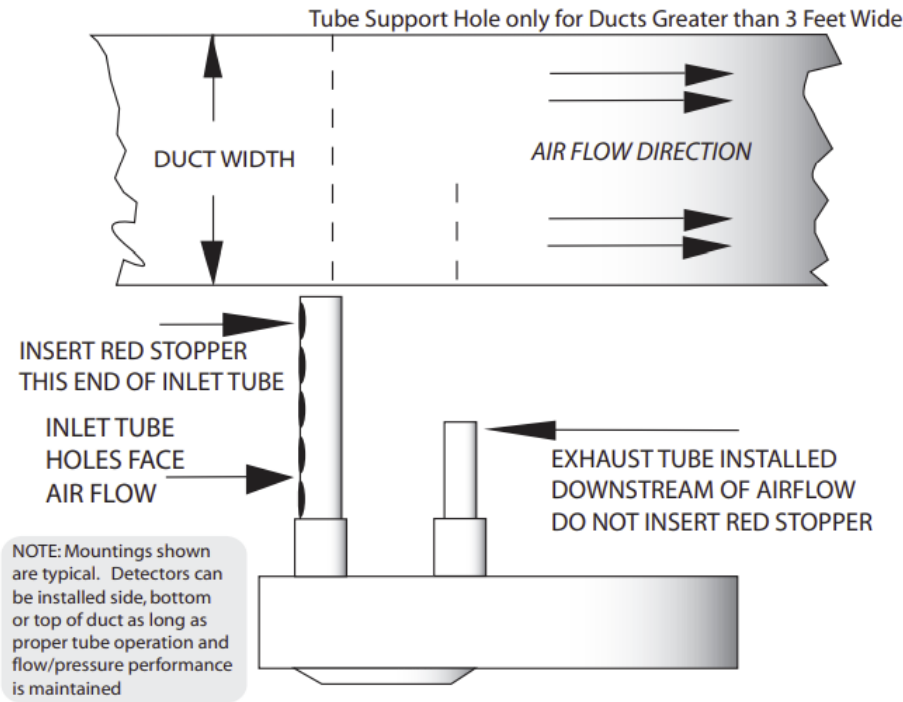
AX-GS-SD2000-P
AX-GS-SD3000-P
AX-GS-SD-STN1
AX-GS-SD-STN2.5
AX-GS-SD-STN5
AX-GS-SD-STN10
AX-GS-SD-FT

Description

Duct Smoke Detector with Photoelectric sensor
Duct Smoke Detector with Photoelectric sensor - Weathertight
Sampling tube 1' to 2' (25 to 50cm)
Sampling tube 2' to 4' (50 to 100cm)
Sampling tube 4' to 8' (100 to 200cm)
Sampling tube 8' to 12' (200 to 300cm)
Modular sampling tubes, 3pcs of 24Inches

Duct Smoke Detector (Photoelectric)

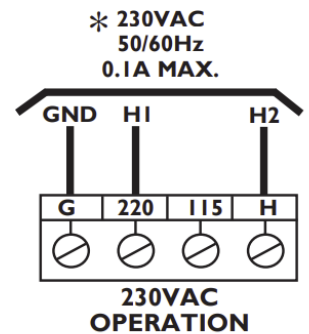
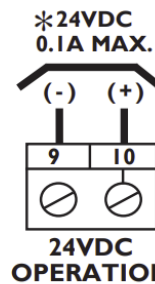
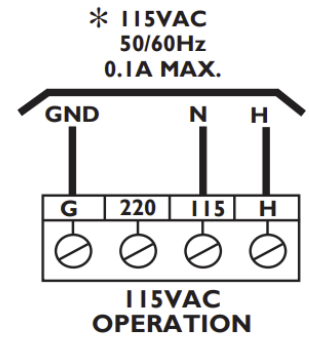
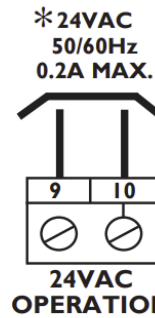
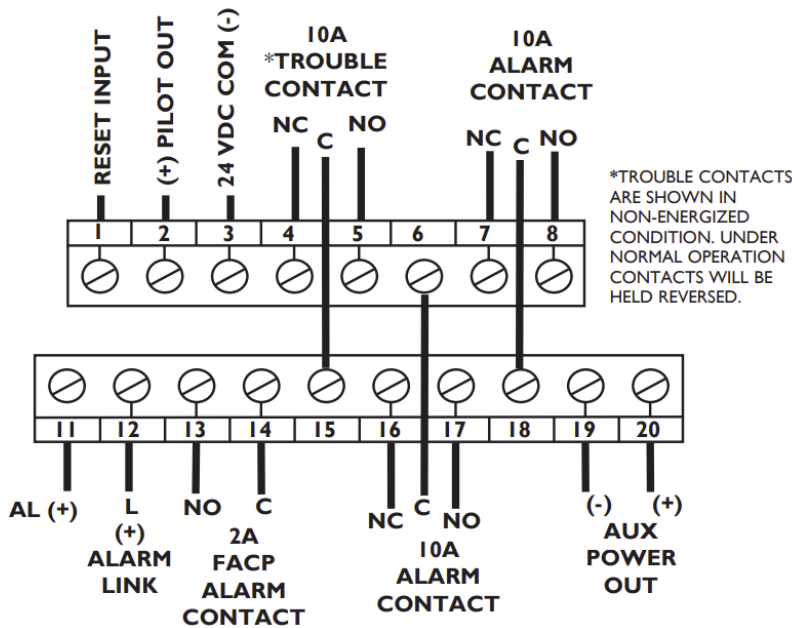
Unit Installation



Electrical Installation

TERMINAL AND POWER CONNECTIONS

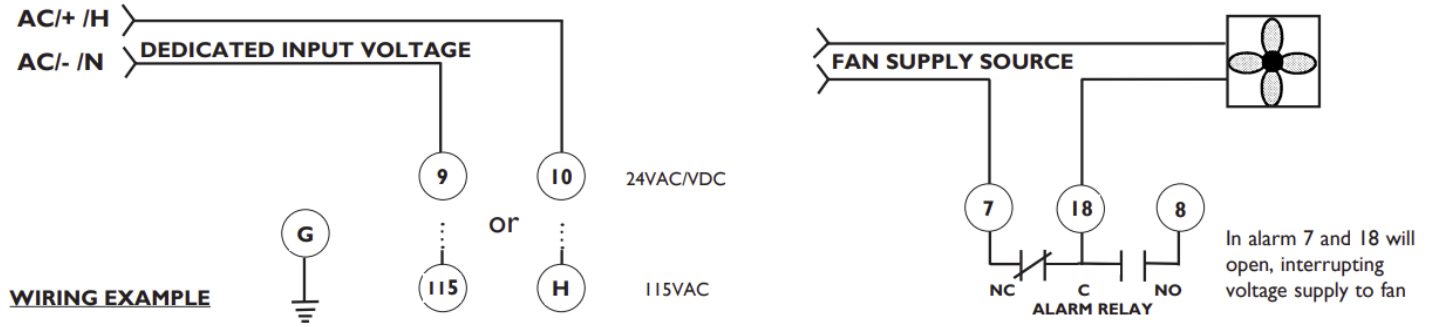
Prior to connecting input power to the duct unit, determine the correct input voltage/ current availability and ensure it is connected to the correct terminals.



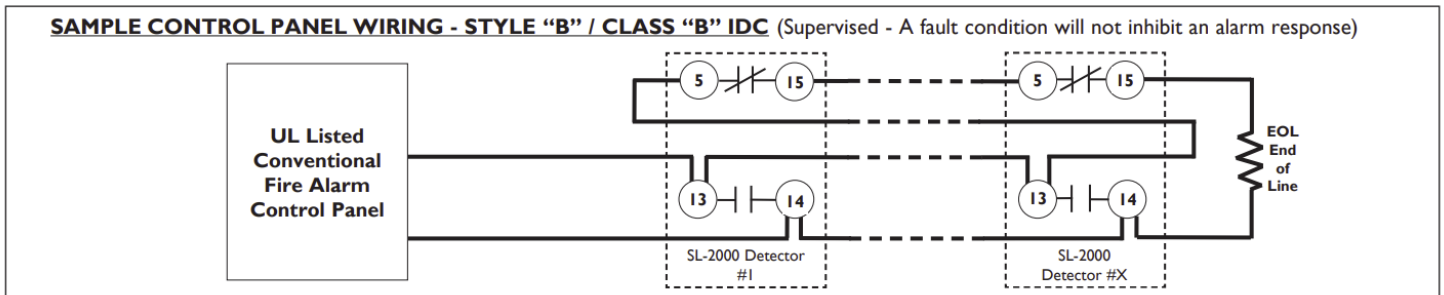
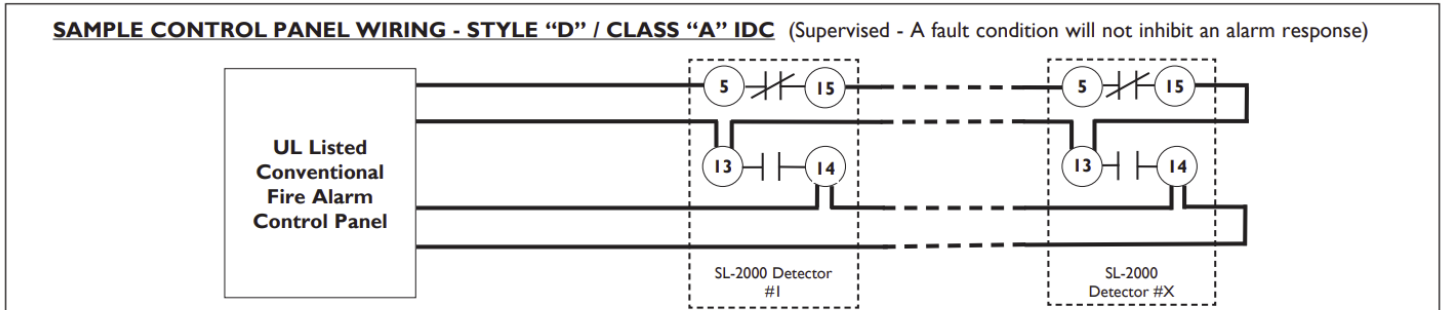
* NOTE: Choose only one source of operating voltage

Duct Smoke Detector (Photoelectric)

Wiring

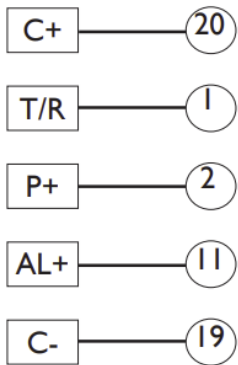


FIRE ALARM CONTROL PANEL WIRING



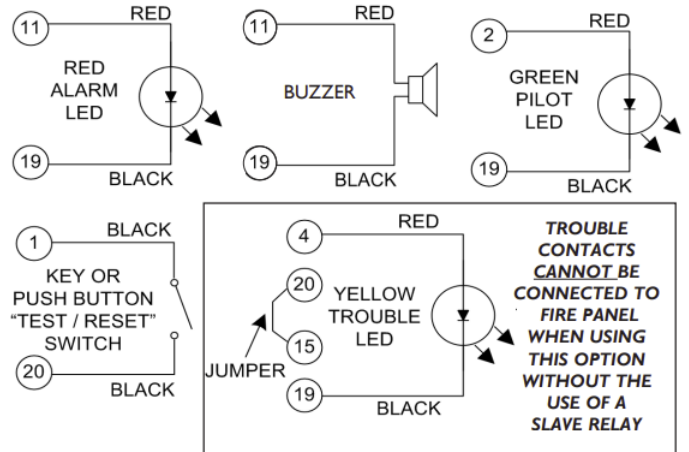
MSR REMOTE ACCESSORY WIRING

MS REMOTE ACCESSORY WIRING



CONNECTIONS SHOWN FOR ALL POSSIBLE TERMINAL STYLE CONFIGURATIONS.

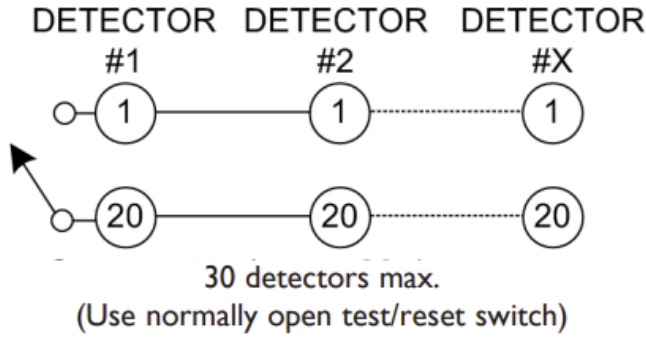
CONNECT ONLY THOSE TERMINALS AVAILABLE ON THE MSR REMOTE ACCESSORY CONTROL ASSEMBLY.



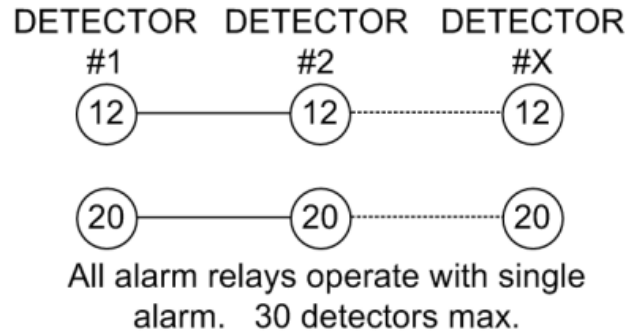
INTERCONNECTION WIRING FOR COMMON FUNCTIONS

* **NOTE:** A common power supply must be used for all interconnected detectors.

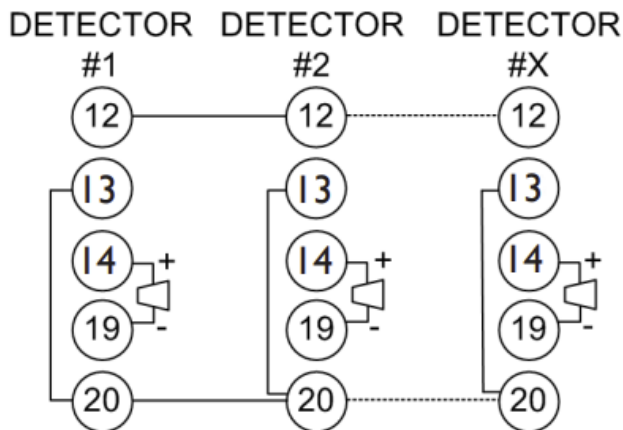
Common Test/Reset



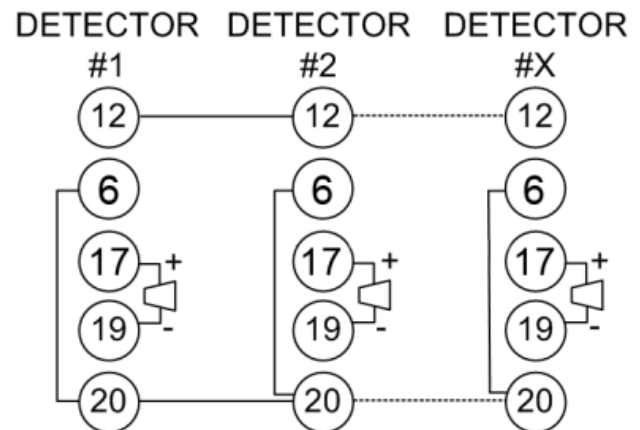
Common Alarm Shutdown



Adding Individual Horn/Strobes



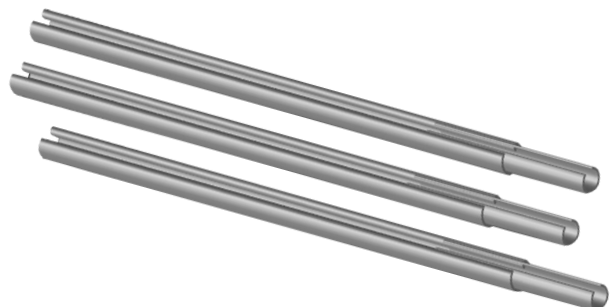
Adding Common Alarm Horn/Strobes



Fixed Size Metal Sampling Tubes



Modular Sectional Sampling Tubes



Datasheet Contents

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