



FACTORY MOUNTED DUCT SMOKE DETECTOR MODEL DSD-NF (NO FLOW) FOR USE WITH 1200 SERIES SMOKE AND COMBINATION FIRE/SMOKE DAMPERS

QUALIFICATIONS:

The following qualifications apply to the smoke detector only. There is no separate UL product category for factory-mounted detector/damper combination. Refer to individual damper specification drawing for damper qualifications. Consult the local authority having jurisdiction before installation to ensure local code compliance.

- UL 268A Listed Smoke-automatic Detectors, Category UROX (File #S911).
- Meets the requirements of NFPA 72, 90A, 92A.
- City of New York. MEA No. 205-94-E.
- California State Fire Marshal Listing No. 7272-1653:122.
- Factory Mutual Approval No. 3025009.

APPLICATION:

Nailor model DSD-NF duct smoke detector (no-flow) can be utilized with Nailor UL555S Classified smoke or combination fire/smoke dampers to detect the presence of smoke within HVAC ductwork, whether or not there is airflow, and close the damper to prevent the smoke from spreading. As most fatalities resulting from fires can be attributed to the effects of toxic smoke, detecting and controlling the smoke from spreading within the HVAC system is vital to preventing injury as well as limiting property damage, including damage to the HVAC system itself. Refer to NFPA Standards 72, 90A and 92A to determine when and where duct smoke detectors are required.

The DSD-NF detector features a low-profile design for optimum pressure drop and will operate with airflow in either direction. It can be factory installed to top of sleeve (side mounting optional) on Nailor Model Series 1210, 1260, 1280, 1220 and 1270.

OPERATION:

Upon detection of smoke, the smoke detector causes the damper to close by cutting off power to the actuator. The actuator return spring forces the damper closed. The detector can be reset only by a momentary power interruption. The standard model DSD-NF detector and smoke damper combination is designed simply to close the damper upon detection of smoke. For applications requiring the detector to be wired into a fire fighters' smoke-control station (FSCS), contact Nailor.

DSD-NF STANDARD SPECIFICATION:

Model: System Sensor 2151 Low-Profile.

Sensor Type: Photoelectric.

Dimensions: 6" (155) dia. flanged base.

Weight: 3.6 oz. (104 g).

Airflow Velocity Range: 0 to 3000 fpm (0 to 15.24 m/s).

Operating Temperature Range: 32°F to 120°F (0°C to 49°C).

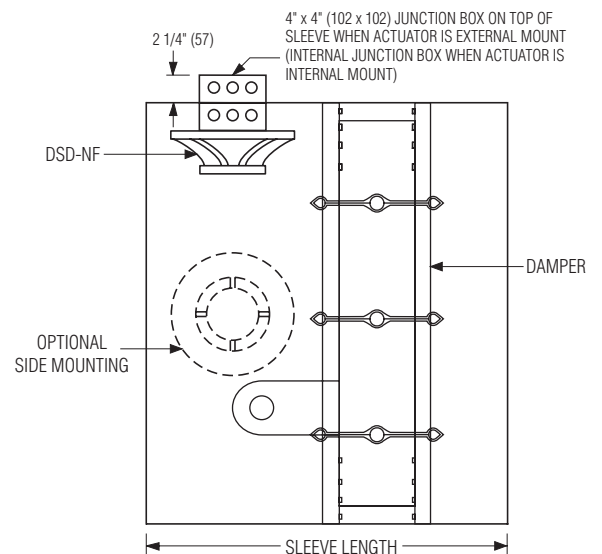
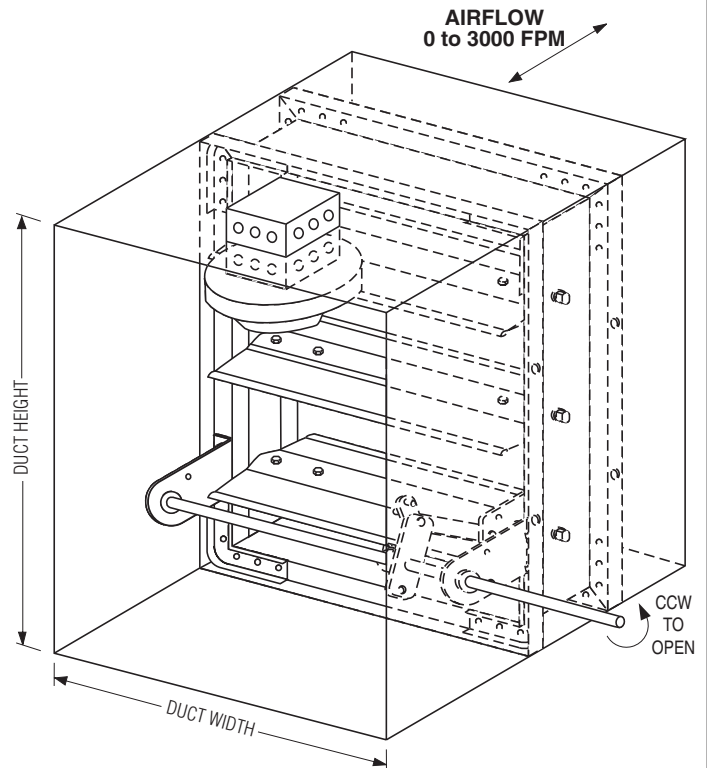
Humidity Range: 10% to 93% Relative Humidity non-condensing.

Sensitivity: 3% ± .7%/ft

Voltage: 120 VAC or 24 VAC/DC.

Latching Alarm: Reset by momentary power interruption.

Contact Nailor for minimum damper size and sleeve length for your specific application.



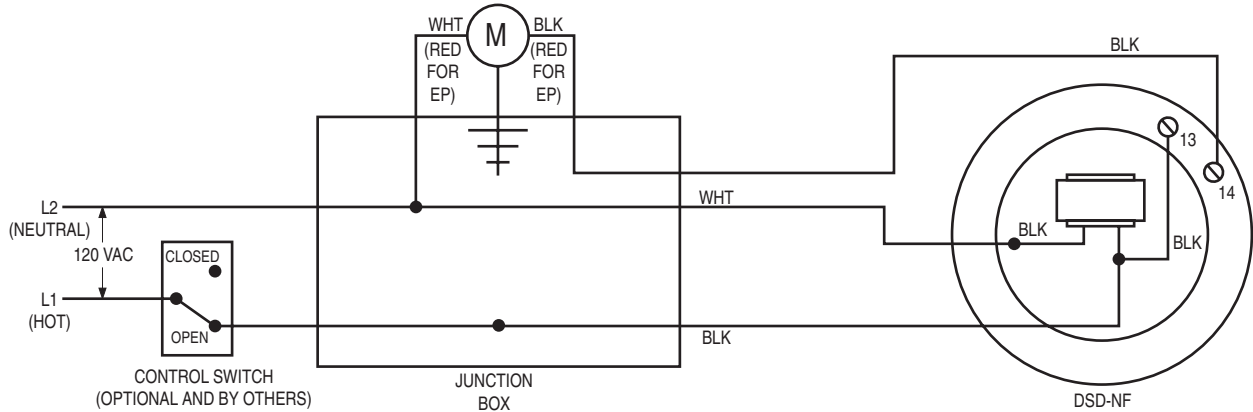
SCHEDULE TYPE:
PROJECT:
ENGINEER:
CONTRACTOR:

Page 1 of 3
Dimensions are in inches (mm).

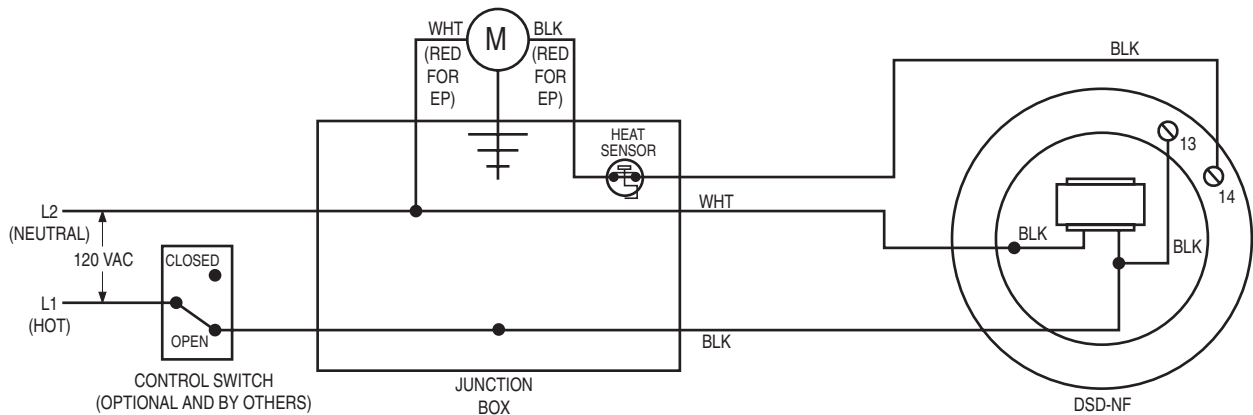
DATE	B SERIES	SUPERSEDES	DRAWING NO.
1 - 5 - 09	1200	NEW	DSD-NF

120 VAC WIRING SCHEMATICS

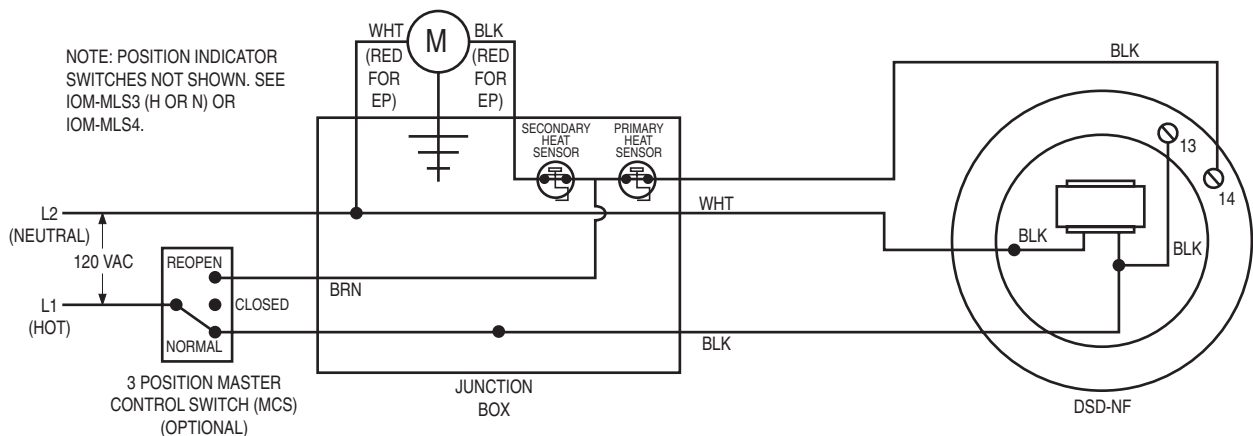
MODEL DSD-NF FACTORY WIRED TO SMOKE DAMPER (MODEL SERIES 1210, 1260 OR 1280):



MODEL DSD-NF FACTORY WIRED TO COMB. FIRE/SMOKE DAMPER WITH ERL (MODEL SERIES 1220 or 1270):



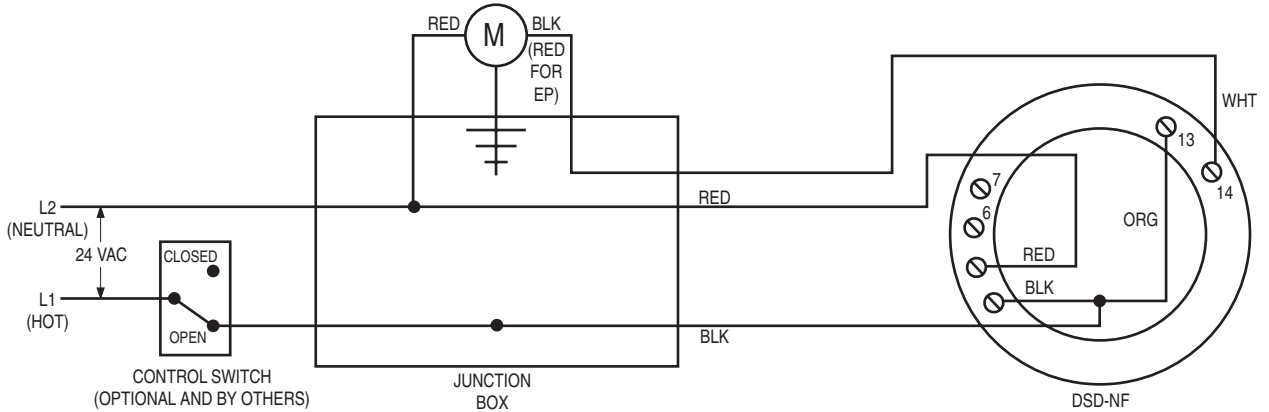
MODEL DSD-NF FACTORY WIRED TO COMB. FIRE/SMOKE DAMPER WITH MLS-400 (MODEL SERIES 1220 or 1270):



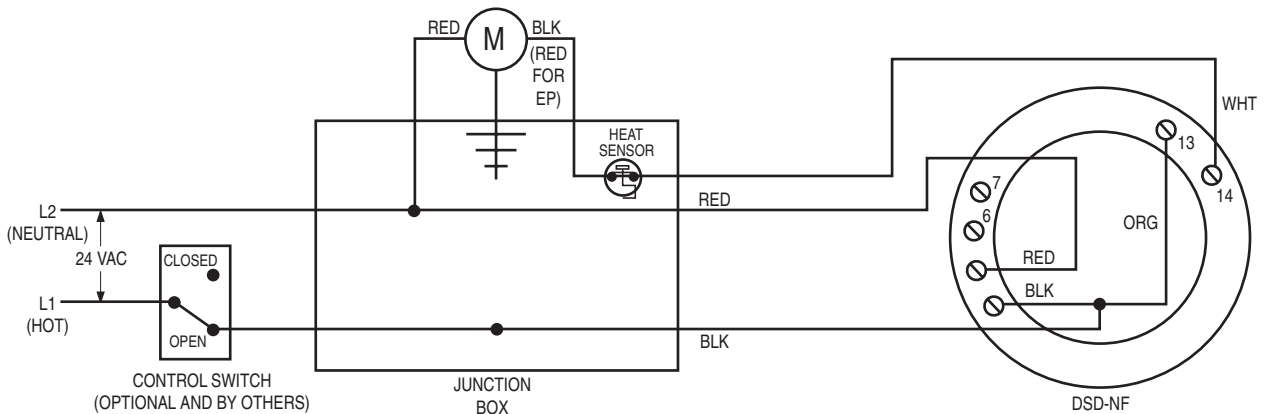
SCHEDULE TYPE:		Page 2 of 3			
PROJECT:		Dimensions are in inches (mm).			
ENGINEER:		DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:		1 - 5 - 09	1200	NEW	DSD-NF

24 VAC WIRING SCHEMATICS

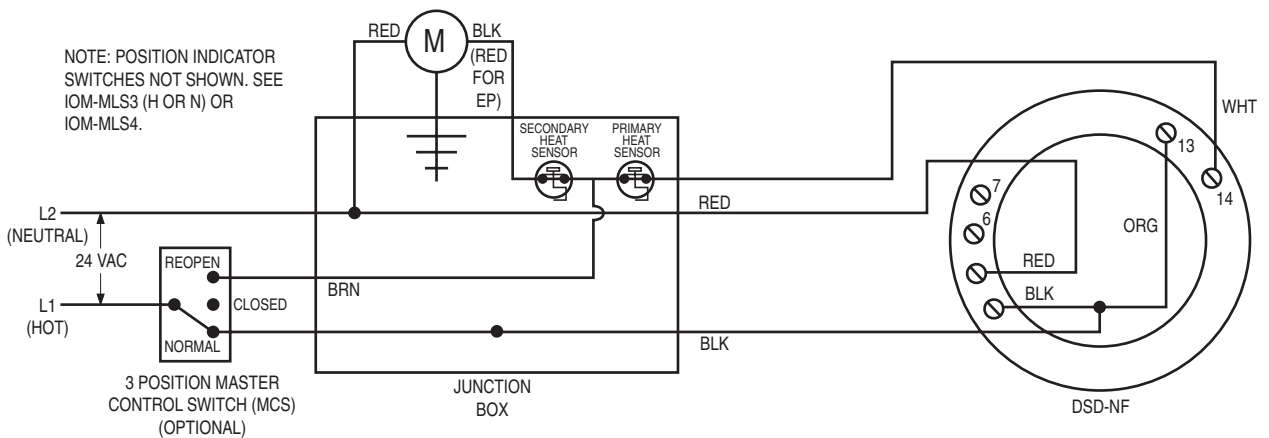
MODEL DSD-NF FACTORY WIRED TO SMOKE DAMPER (MODEL SERIES 1210, 1260 OR 1280):



MODEL DSD-NF FACTORY WIRED TO COMB. FIRE/SMOKE DAMPER WITH ERL (MODEL SERIES 1220 or 1270):



MODEL DSD-NF FACTORY WIRED TO COMB. FIRE/SMOKE DAMPER WITH MLS-400 (MODEL SERIES 1220 or 1270):



SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	1 - 5 - 09	1200	NEW	DSD-NF