

Document Number 463813

Installation Instruction Supplement for

SMD, SMDR & SSSMD Series Smoke Dampers and FSD, FSD-3xxV & SSFSD Series Combination Fire Smoke Dampers and CFSD Series

With Factory Mounted Duct Smoke Detectors

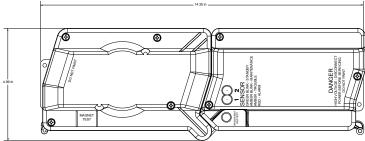
Corridor Ceiling Dampers

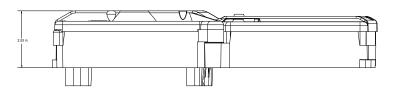
"UL CLASSIFIED (see complete marking on product)"

"UL CLASSIFIED to Canadian safety standards (see complete marking on product)"

Standard 555 (Listing #R13317) Standard 555S (Listing #R13447)







Refer to:

'Installation Instructions for SMD, SMDR and SSSMD Series Leakage Rated Smoke Dampers' (Part #461338)

or

'Installation Instructions for CFSD Series Corridor Ceiling Dampers' (Part #461335)

or

'Installation Instructions for FSD, DFD, and SSFSD Series Combination Fire Smoke Dampers' (Part #481318) and FSD-3XXV series (Part # 461666) for additional details.

Notes

- **1.** Mininum air velocity for smoke detector operation is 100 fpm (2.5 m/s). Maximum is 4000 fpm (20.3 m/s).
- 2. Since the smoke detector is not rated for use at velocities below 100 fpm (2.5 m/s), local code may require an alternate means of damper closure such as zone detection or automated damper closure when the system fan is shut down. The local authority having jurisdiction should be consulted prior to the installation of the damper and smoke detector.
- 3. Holes on sampling tube must face into airstream.
- 4. Smoke detector specifications are:

Operating temperature range: -4°F to 158°F

(-20°C to 70°C)

Operating humidity range: 10% to 95% R.H.

Operation voltage: 24 VAC/DC or 120

VAC (50/60 Hz)

- **5.** Refer to System Sensor, D4120 Installation and Maintenance Instructions for further installation details.
- Refer to System Sensor, D4120, Installation and Maintenance Instructions for maintenance and field tests.
- 7. System Sensor 3825 Ohio Avenue St. Charles, Illinois 60174 Phone:1-800-SENSOR2 Fax: 1-630-377-6495

Website: http://www.systemsensor.com

Wiring Diagrams

Duct smoke detector

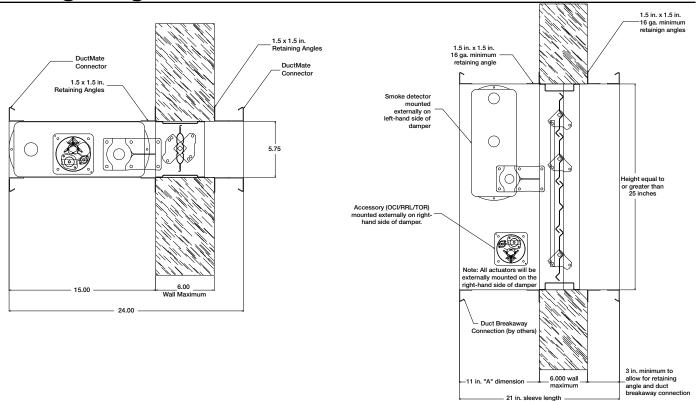
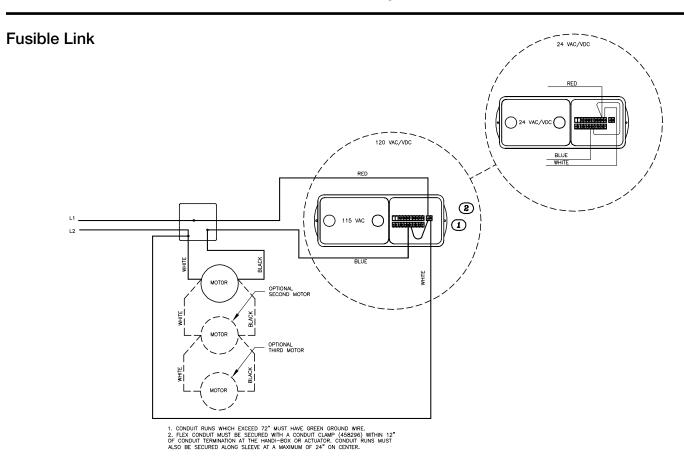
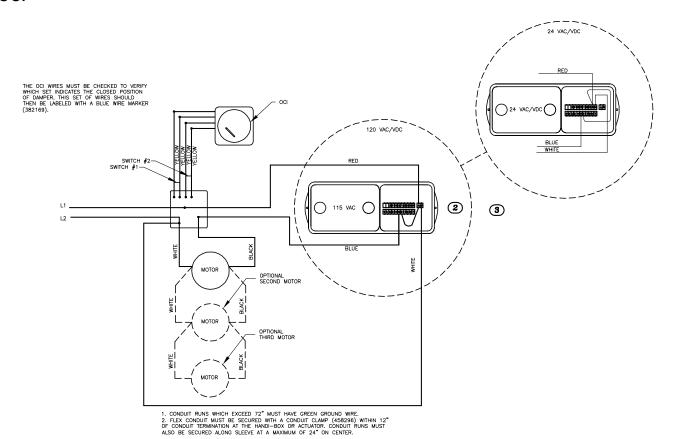


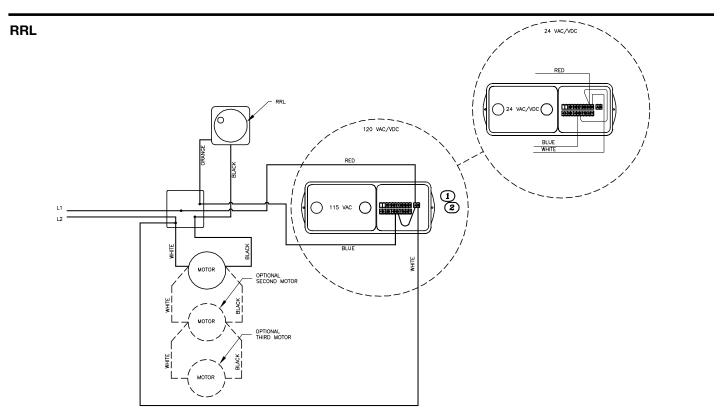
Figure 1: Smoke detector mounting orientation for dampers less than 25 inches (635mm) in height.

Figure 2: Smoke detector mounting orientation for dampers equal to or greater than 25 inches (635mm) in height.



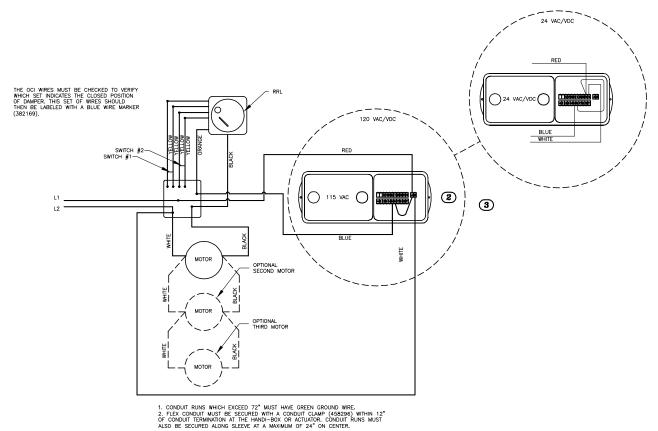
OCI



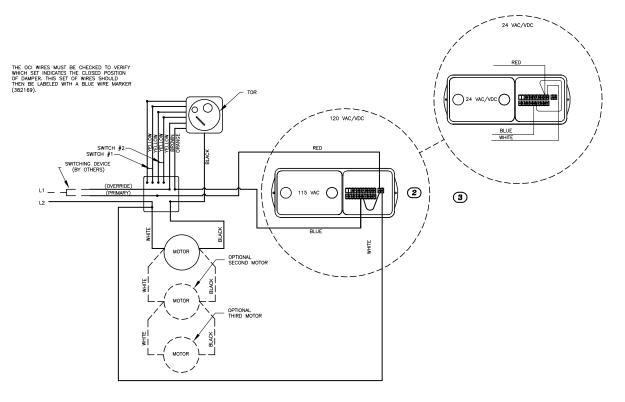


1. CONDUIT RUNS WHICH EXCEED 72" MUST HAVE GREEN GROUND WIRE. 2. FLEX CONDUIT MUST BE SECURED WITH A CONDUIT CLAMP (458296) WITHIN 12" OF CONDUIT TERMINATION AT THE HANDI-BOX OR ACTUATOR, CONDUIT RUNS MUST ALSO BE SECURED ALONG SLEEVE AT A MAXIMUM OF 24" ON CENTER.

RRL/OCI

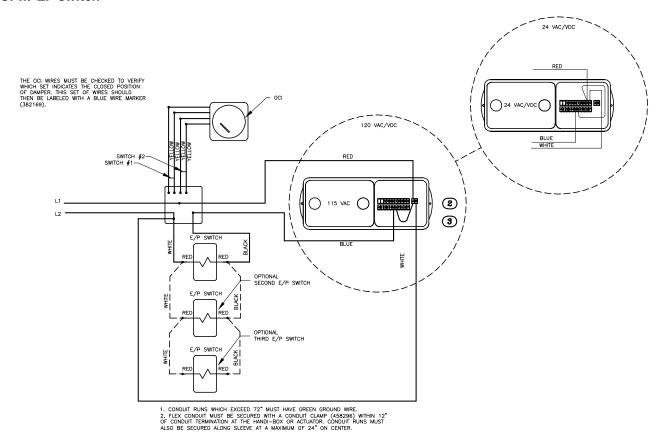


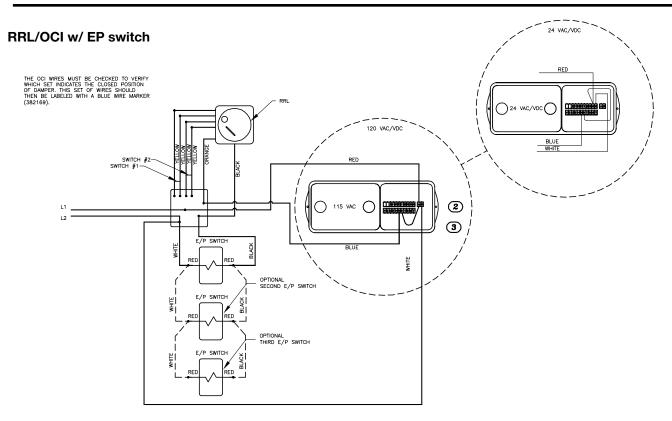
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CONDUIT RUNS WHICH EXCEED 72" MUST HAVE GREEN GROUND WIRE.
FLEX CONDUIT MUST BE SECURED WITH A CONDUIT CLAMP (488298) WITHIN 12" OF CONDUIT TERMINATION AT THE HANDI-BOX OR ACTUATOR. COMOULT RUNS MUST ALSO BE SECURED ALONG SLEEVE AT A MAXMUM OF 24" ON CENTER.

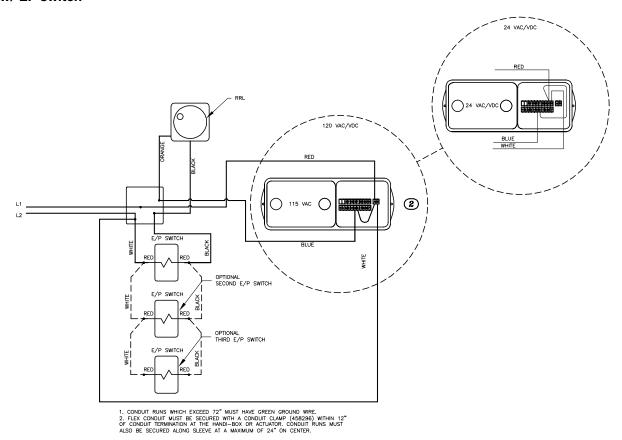
OCI w/ EP switch





1. CONDUIT RUNS WHICH EXCEED 72" MUST HAVE GREEN GROUND WIRE. 2. FLEX CONDUIT MUST BE SECURED WITH A CONDUIT CLAMP (458296) WITHIN 12" OF CONDUIT TERMINATION AT THE HANDI-BOX OR ACTUATOR, CONDUIT RUNS MUST ALSO BE SECURED ALONG SLEEVE AT A MAXIMUM OF 24" ON CENTER.

RRL w/ EP switch



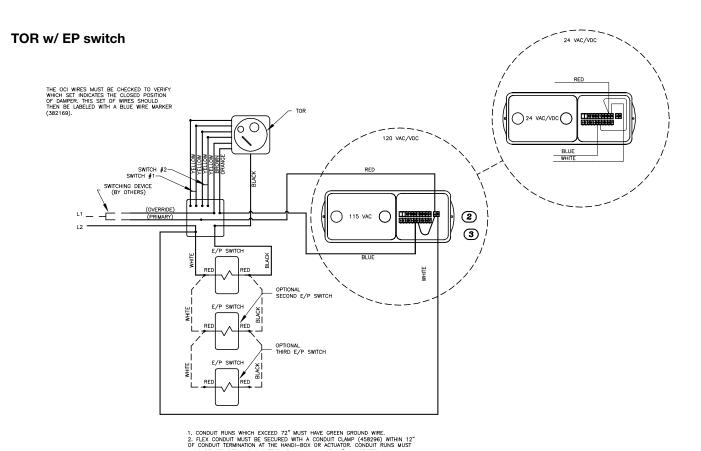


Figure 3: Label applied to dampers with factory mounted duct smoke detectors.

Smoke detector requires 100 fpm minimum air velocity in duct. For damper activation requirements when system velocity is less than 100 fpm, the local authority having jurisdiction should be consulted.

Refer to smoke detector installation instructions and Greenheck IOM - Smoke Detector Supplement FS for dampers with factory mounted duct smoke detectors.

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