

Document Number 482753

DUCTSD Smoke Detector System Sensor

Installation Instruction Supplement for

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

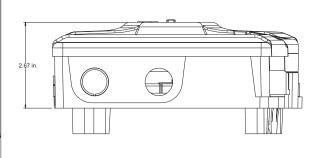
with Factory Mounted Duct Smoke Detectors

Refer to: "UL CLASSIFIED (see complete marking on Installation Instructions for SMD, SMDR and SSSMD product)" Series Leakage Rated Smoke Dampers' (Part #461338) "UL CLASSIFIED to Canadian safety standards (see complete marking on product)" or Installation Instructions for CFSD Series Corridor Ceiling Standard 555 (Listing #R13317) Dampers' (Part #461335) Standard 555S (Listing #R13447) or Installation Instructions for FSD, DFD, and SSFSD Series Combination Fire Smoke Dampers' (Part #481318) and FSD-3XXV series (Part # 461666) for additional details.

DANGER

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Square



Notes

1. Mininum air velocity for smoke detector operation is 100 fpm (2.5 m/s). Maximum is 4000 fpm (20.3 m/s).

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- 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:

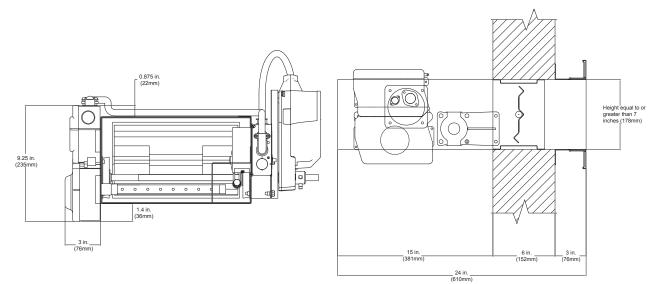
Operating temperature range:	-4°F to 158°F (-20°C to 70°C)
Operating humidity range:	10% to 95% R.H.
Operation voltage:	24 VAC/DC or 120 VAC (50/60 Hz)

- **5.** Refer to System Sensor, DUCTSD Installation and Maintenance Instructions for further installation details.
- **6.** Refer to System Sensor, DUCTSD, 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

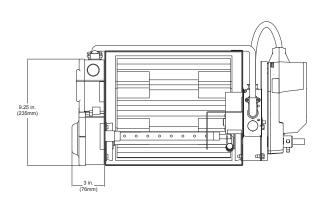
Website: http://www.systemsensor.com

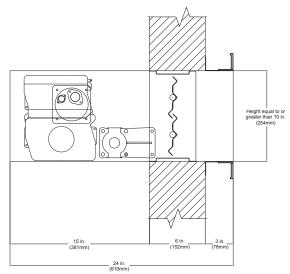
Mounting Orientation and Space Envelopes

Dampers Equal to or Greater Than 7 inches (178mm) But Less Than 10 Inches (254mm) in Height

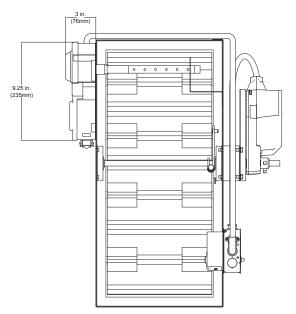


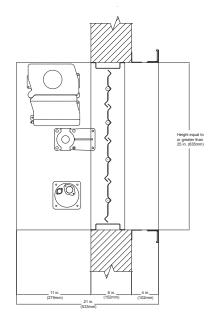
Dampers Equal to or Greater Than 10 inches (254mm) But Less Than 25 Inches (635mm) in Height





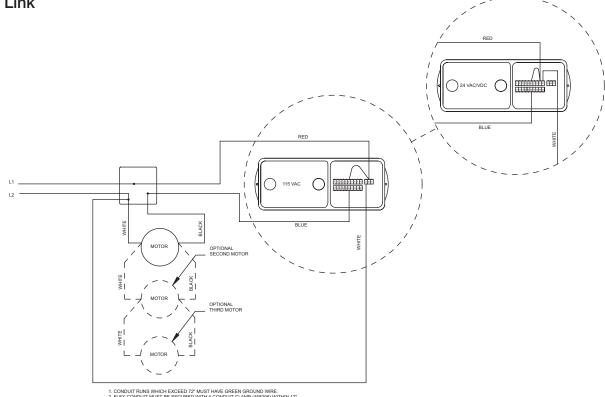
Dampers Equal to or Greater Than 25 inches (635mm) in Height



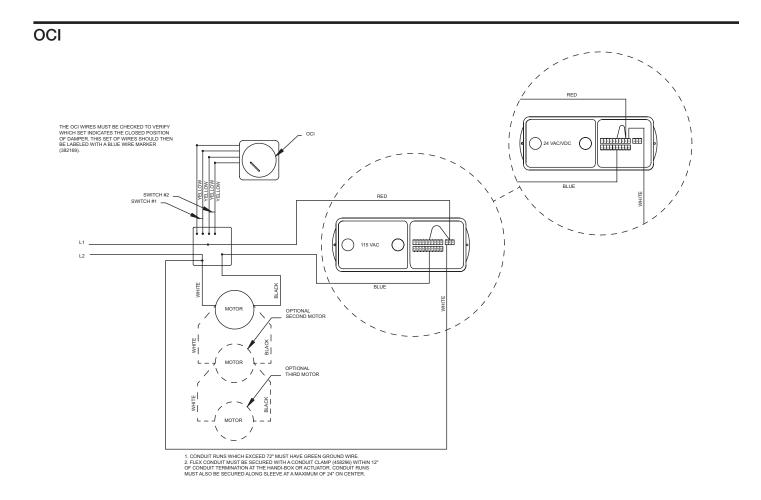


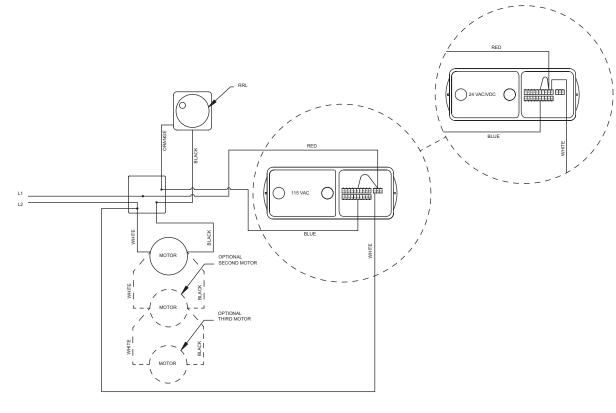
Duct smoke detector

Fusible Link



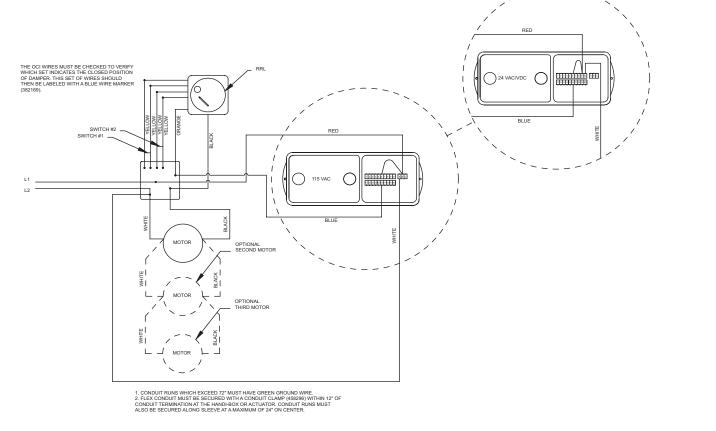
1. CONDUIT RUNS WHICH EXCEED 72" MUST HAVE GREEN GROUND WIRE. 2. FLEX CONDUIT MUST BE SECURED WITH A CONDUIT CLAMP (45826) WITHIN 12" OF CONDUIT TEMINATION AT THE HAND-BOX OR ACTUATOR. CONDUIT RUNS MUST ALSO BE SECURED ALONG SLEEVE AT A MAXIMUM OF 24" ON CENTER.



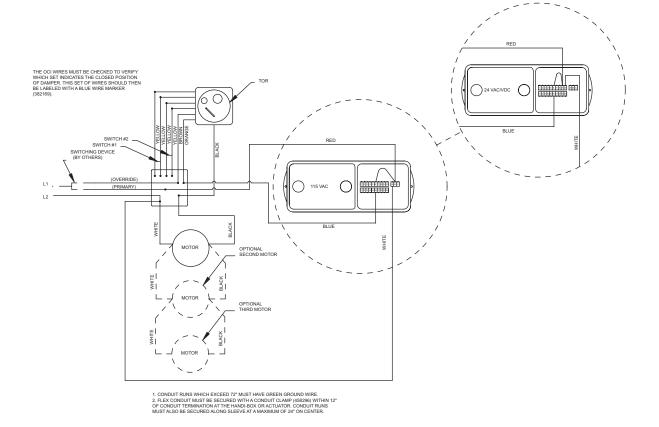


1. CONDUIT RUNS WHICH EXCEED 72" MUST HAVE GREEN GROUND WIRE. 2. FLEX CONDUIT MUST BE SECURED WITH A CONDUIT CLAMP (45928) WITHIN 12" OF CONDUIT TERMINATION AT THE HANDBOK OR A CTUATOR CONDUIT RUNS MUST ALSO BE SECURED ALONG SLEEVE ATA MAXIMUM OF 24" ON CENTER.

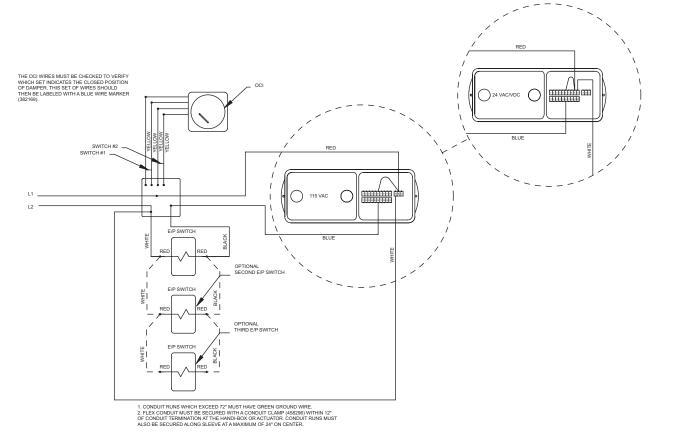
RRL/OCI



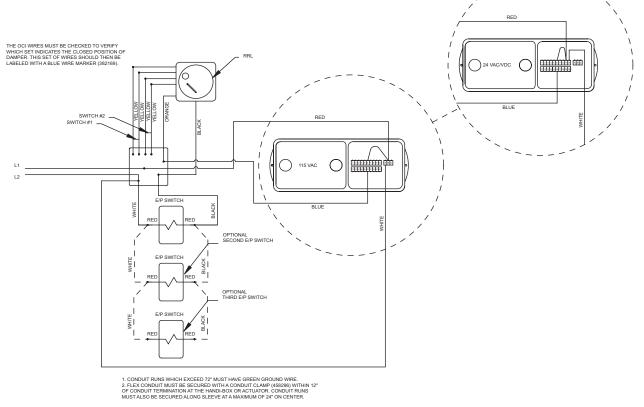
TOR



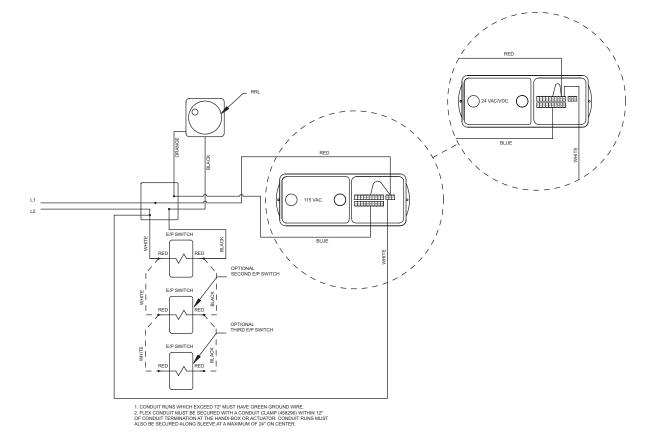
OCI w/ EP switch



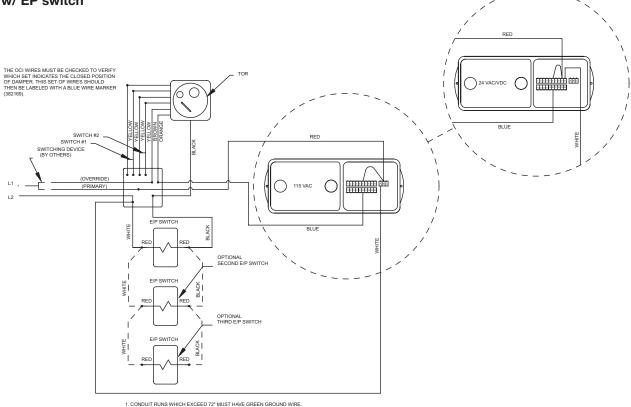
RRL/OCI w/ EP switch



RRL w/ EP switch



TOR w/ EP switch



1. CONDUIT RUNS WHICH EXCEED 72' MUST HAVE GREEN GROUND WIRE. 2. FLEX CONDUIT MUST BE SECURED WITH A CONDUIT CLAMP (458286) WITHIN 12' 0° CONDUIT TREINMATION AT THE HAND-BOX OR ACTUATOR. CONDUIT RUNS MUST ALSO BE SECURED ALONG SLEEVE AT A MAXIMUM OF 24' ON CENTER.

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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