



HAZARDOUS LOCATIONS

DET-TRONICS EXPLOSION PROOF DUCT SMOKE DETECTOR 30-3003D

DESCRIPTION

The **Det-Tronics Model 30-3003D explosion proof duct smoke detector** provides early detection of smoke and products of combustion in air moving through HVAC ducts. An intake tube accomplishes air sampling. A return tube, duct enclosure, junction box, and instruction manual are included with the base unit. The detector and junction box are listed for use in atmospheres with hazardous gases or dusts (Groups C, D, E, F).



30-3003D



FEATURES

- **Class I, Division 2, Groups A, B, C, D**
- **Trouble-free photoelectric detector**
- **24 VDC operation**
- **Contacts (3): N.O. (alarm), N.C. (supervisory), SPDT (auxiliary)**

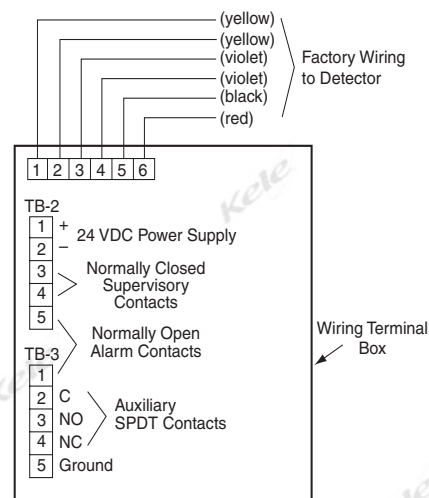
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SPECIFICATIONS

| | |
|-------------------------|--|
| Supply Voltage | 20-28 VDC @ 10 mA standby, 50 mA alarm |
| Contact Rating | |
| Alarm | SPST, 1A @ 30 VDC |
| Auxillary | SPDT, 2A @ 30 VDC |
| Air Velocity | 600-4000 fpm (3-20 mps) |
| Area | Explosion proof Class I, Division 2, Groups C,D; Class II, Division 2, Groups E, F, G; Class III |
| Enclosure Rating | Detector :NEMA 4X fiberglass; Detector and junction box: NEMA3, 7CD, 9EF, 12 |
| Sampling Tube | 3/4" galvanized EMT in 1', 3', 6', or 10'L (0.3, 0.9, 1.8, or 3m) |
| Return Tube | 12"L (30.5 cm), included |
| Dimensions | 12.75" H x 3.5" W x 6" D (32.4 x 8.9 x 15.2 cm) |
| Approvals | CSA |
| Weight | 13.0 lb (5.9 kg) |
| Warranty | 1 year |

WIRING



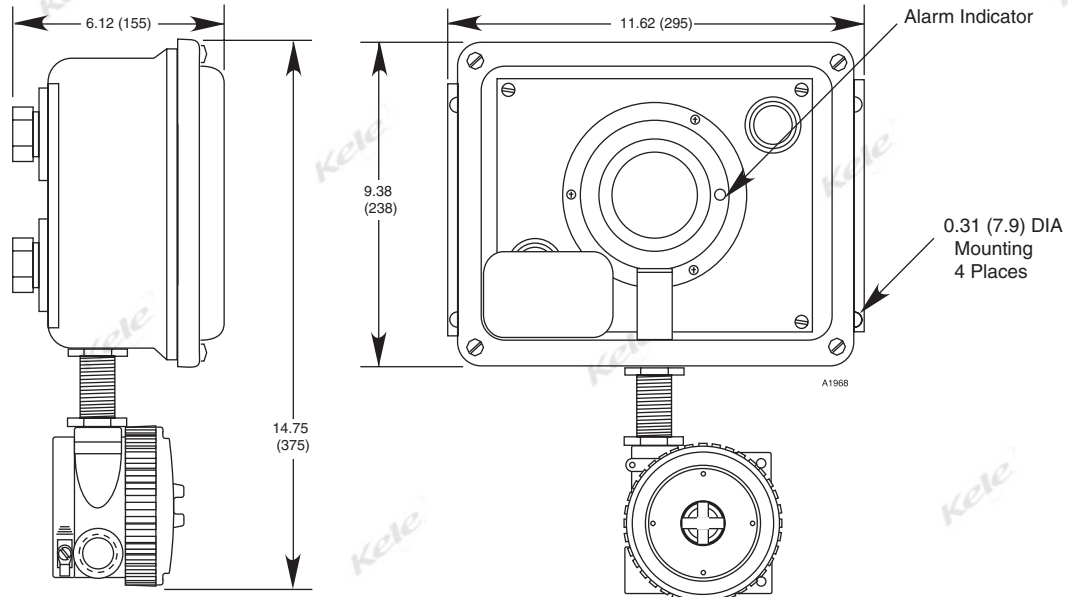
Note: Circuit shown in the normal standby energized mode.

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DIMENSIONS



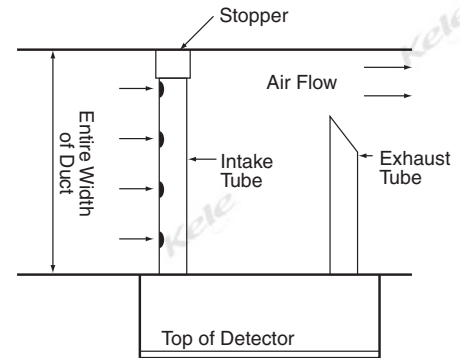
CAUTION: Conduit seal **MUST** be installed within code required distance from junction box to maintain explosion proof rating.

MOUNTING

Mount the detector in an air duct using the provided template. Detector must be mounted at least six duct widths from the fan or other sources of turbulence.

The intake sampling tube has holes drilled the entire length of the tube and should extend the entire width of the duct. The holes must be facing into the air flow.

1. Cut the intake sampling tube to the desired length.
2. Firmly insert the stopper (packaged in the installation kit) in the end of the intake sampling tube.
3. Follow instruction sheet provided with each detector.



ORDERING INFORMATION

| MODEL | DESCRIPTION |
|-------------|--|
| 30-300D-1 | Explosion proof duct smoke detector, photoelectric with 1' duct sampling tube |
| 30-3003D-3 | Explosion proof duct smoke detector, photoelectric with 3' duct sampling tube |
| 30-3003D-6 | Explosion proof duct smoke detector, photoelectric with 6' duct sampling tube |
| 30-3003D-10 | Explosion proof duct smoke detector, photoelectric with 10' duct sampling tube |

| | RELATED PRODUCTS | PAGE |
|---------|--|------|
| ACK6F | Cement: 30 oz * (850g) Fiber: 5 oz (142g), 25 cu in (410 cu cm) volume when set * Consists of five 6 oz (187g) cement pouches | 489 |
| EYM-100 | 1" size, 1.38" turning radius, 4 oz Kwiko cement required, Malleable Iron construction | 488 |