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Product Alert

January 4, 2013

Type of Notification: Counterfeit

FM Approvals has been notified by Detector Electronics Corporation of a counterfeit FM Approval Report. The document (attached) misrepresents Det-Tronics U5005 and U5006 series smoke detectors manufactured by Detector Electronics Corporation as FM Approved. Detector Electronics Corporation has cooperated fully in FM Approvals' investigation and claims to have no knowledge of the origin of the counterfeit document.

Hazard Involved:

The products described in this product alert have never been tested or certified as FM Approved. There is no evidence these products have ever been tested to the rigorous requirements of FM Approvals. Use of these products may present a serious property risk for the user.

Company Identity:	Detector Electronics Corporation (Det-Tronics).
Name:	Detector Electronics Corporation (Det-Tronics).
Address:	6901 West 110th Street
	Minneapolis, MN 55438

Contact Information:	Product information and customer service phone numbers are available at: www.detrronics.com
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Product Identity:	Det-Tronics U5005 and U5006 Smoke Detectors for classified areas
Description:	See attached data sheet
Make/Model:	Det-Tronics U5005 and U5006 Smoke Detectors for classified areas
Nameplate Data	Det-Tronics U5005 and U5006 Smoke Detectors for classified areas
FM Approval Status:	Not FM Approved

If you are in possession of any of the products depicted in this product alert and bearing the FM Approvals certification mark, please bring this to the attention of:

Thomas G. McCarty
FM Approvals, Quality Department
Norwood, MA, USA
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TRAZABILIDAD:
LAN05716



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APPROVAL REPORT

U5005 SMOKE DETECTORS

U5005A1001, U5005A1002, U5005A1004

U5006 AIR DUCT SMOKE DETECTORS

U5006A1001, U5005A1006

Prepared for:

Det-tronics Corp.
6901 West 110th Street
Minneapolis, Minnesota 5543
USA

Project ID: 3033994

Class: 3230

Date of Approval: 12 March 2010

Authorized by: *J.C. Marquedant*
James Marquedant, Group Manger, Electrical

FM Approvals
1151 Boston-Providence Turnpike
PO Box 9102
Norwood, MA 02062

Smoke Detectors for Classified Areas**U5005, U5006 Duct Mount****APPLICATION**

The Det-Tronics U5005 Smoke Detector is a sensitive yet rugged, state-of-the-art protection device that is designed for classified areas in hazardous industrial and commercial locations. The detector is designed to operate effectively with both slow smoldering and fast burning fires. The U5005 Smoke Detector includes an external alarm indicating LED, as well as alarm, power supervision and auxiliary relays. Typical applications that use the U5005 include:

- Combustible storage facilities
- Munitions manufacturing
- Volatile chemical storage
- Chemical processing plants
- Petroleum refineries
- Turbine enclosures.

The Det-Tronics U5006 Air Duct Smoke Detector, using the technology of the U5005 Smoke Detector mounted inside a fiberglass NEMA 4X enclosure, is designed to detect the presence of smoke for the primary purpose of controlling blowers and dampers in air conditioning and ventilation systems. The unit mounts directly to heating, ventilating, and air conditioning ducts and uses a cross sectional sampling tube arrangement that allows large volume air sampling. The U5006 includes the same relay outputs as the U5005.

The detectors are intended to be connected to a control unit and function as part of a fire protection system (4-wire system, 2 wires for detector power and 2 wires for detector output).

**FEATURES**

- CSA Certified for use in Class I, Division 2, Groups A, B, C and D hazardous locations.
- Trouble-free photoelectric operation.
- Standard 4-wire 24 vdc operation.
- Designed to meet ANSI/UL 268A smoke obscuration limits.
- 600 to 4000 ft/min airflow range (duct mount model).
- Rugged design for environmental extremes.
- Self-checking circuitry ensures reliable smoke detection.
- Regulation photodiode, matched to the smoke detection circuit, adjusts output as necessary to compensate for accumulation of contaminants or environmental variations.
- Detector uses extensive filtering against RF and transient interference.
- Form A (SPST) N.O. alarm relay contacts (latching) for connection to alarm response circuitry.
- Form A (SPST) N.C. contacts for supervision of input power.
- Auxiliary Form C (SPDT) N.O./N.C. alarm relay for controlling remote annunciating devices.
- LED located on the outer surface of the housing is illuminated to provide a visual indication that an alarm condition has occurred.

SPECIFICATIONS

OPERATING VOLTAGE	20 to 28 vdc filtered supply, with less than 1.4 vpp at 60 to 120 Hz.	WEIGHT	U5005: 2 pounds (0.91 kilogram). U5006: 13 pounds (5.9 kilograms).															
OPERATING CURRENT	<p>U5005 Standby: 10 milliamperes. Alarm: 35 milliamperes.</p> <p>U5006 Standby: 10 milliamperes. Alarm: 50 milliamperes.</p>	DIMENSIONS	<p>U5005: L = 14.4 inches (36.6 cm) W = 5.3 inches (13.5 cm) D = 3.8 inches (9.7 cm).</p> <p>U5006: L = 14.75 inches (37.5 cm) W = 11.6 inches (29.5 cm) D = 6.1 inches (15.5 cm).</p>															
TEMPERATURE RANGE	Operating: -13°F to +140°F (-25°C to +60°C). Storage: -67°F to +185°F (-55°C to +85°C).	SAMPLING TUBES (U5006 ONLY)	<p>Material: Galvanized steel tubing 3/4 inch EMT, length to be specified by customer (1, 3, 6, or 10 feet).</p> <p>Return tube: 12 inch standard length sampling tube.</p>															
HUMIDITY RANGE (U5006 ONLY)	0 to 90% RH non-condensing.	ORDERING INFORMATION	<p>When ordering, please specify:</p> <p>U5005 Smoke Detector U5006 Air Duct Smoke Detector</p> <p>When ordering the U5006, specify the air duct sampling tube length required.</p> <p>The air duct sampling tube provides a cross sectional sampling of air moving through the duct and is available in four lengths. The air duct sampling tube should cover the entire width of the duct, therefore, specify the shortest sampling tube that is at least the width of the duct to be protected. It can then be cut to the exact length at the job site.</p> <p>Available duct sampling tube sizes:</p> <table border="0" style="margin-left: 20px;"> <thead> <tr> <th>Description</th> <th>Model</th> <th>Part Number</th> </tr> </thead> <tbody> <tr> <td>1 foot length</td> <td>ST- 1</td> <td>004783-001</td> </tr> <tr> <td>3 foot length</td> <td>ST- 3</td> <td>004783-002</td> </tr> <tr> <td>6 foot length</td> <td>ST- 6</td> <td>004783-003</td> </tr> <tr> <td>10 foot length</td> <td>ST- 10</td> <td>004783-004</td> </tr> </tbody> </table>	Description	Model	Part Number	1 foot length	ST- 1	004783-001	3 foot length	ST- 3	004783-002	6 foot length	ST- 6	004783-003	10 foot length	ST- 10	004783-004
Description	Model	Part Number																
1 foot length	ST- 1	004783-001																
3 foot length	ST- 3	004783-002																
6 foot length	ST- 6	004783-003																
10 foot length	ST- 10	004783-004																
AIR VELOCITY RANGE (U5006 ONLY)	600 to 4000 ft/min.																	
SENSITIVITY RANGE (U5006)	<p>Meets ANSI/UL268A visible smoke obscuration limits:</p> <p>Grey smoke: 7.0% / ft maximum, 0.5% / ft minimum</p> <p>Black smoke: 10.0% / ft maximum, 0.5% / ft minimum.</p>																	
SENSITIVITY RANGE (U5005)	2.3% obscuration.																	
ALARM AND SUPERVISORY RELAY CONTACT RATING	1.0 ampere at 30 vdc, SPST.																	
AUXILIARY ALARM RELAY CONTACT RATING	2.0 amperes at 30 vdc, Form C, SPDT.																	
FIBERGLASS ENCLOSURE (U5006 ONLY)	NEMA 4X. Cover is clear polycarbonate with closed cell neoprene gasket supplied with stainless steel screws.																	
CERTIFICATION	CSA Certified for Class I, Division 2, Groups A, B, C & D Hazardous Locations.																	



Detector Electronics Corporation

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Specifications subject to change without notice.