



Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment:

System Description – SmokeWatch™ Model U5015 and Pryotector Model 30-3013 Explosionproof Photoelectric Type Smoke Detector

Approval Guide Listing: See Page 2

Detector Electronics Corporation
6901 West 110th Street
Minneapolis, MN 55438
United States

This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report 3055565 of the following FM Approval Standards and other documents:

<i>Approval Standards</i>		<i>Other Standards</i>	
<i>Class Number</i>	<i>Date</i>	<i>Organization, Designation</i>	<i>Date</i>
3230	2010	ANSI/ISA 1010-1	2004
3600	2011	ANSI/IEC 60529	2004
3610	2010	ANSI/ISA 60079-0	2013
3611	2004	ANSI/ISA 60079-1	2013
3615	2006	ANSI/ISA 60079-11	2014
3810	2005		

Original Approval Job Identification: 3055565

Approval Granted: 8/5/15

Related Report:

Subsequent Revisions:

3053966
RR204214

To verify the availability of the Approved product, please refer to www.approvalguide.com


J. E. Marquedant
Manager of Electrical Systems
FM Approvals
1151 Boston-Providence Turnpike,
Norwood MA, 02062 USA

Date 11 April 2016



Member of the FM Global Group



Certificate of Compliance

Fire Protection Electrical Signaling Alarm Signal Initiating Devices Fire detection, Smoke Actuated Fire Detectors-Smoke

Photoelectric Type Smokewatch™ Smoke Detector. Model U5015 and Pyrotector Model 30-3013. The main parts: sensor module, aluminum sensor base/junction box, retaining ring, mounting plate and connector board. To be used with compatible Approved fire alarm control panels. Non-latching alarm, but as an option, the detector can be factory configured for alarm latching operation. Operating voltage range of 12 to 30V dc, with the maximum power consumption 3.5 watts. Output relays: alarm relay, Form C, 5 amperes at 30 Vdc; trouble/fault relay, Form A, 5 amperes at 30 Vdc; auxiliary relay (functions as a pre-alarm relay), Form C, 5 amperes at 30 Vdc. Operating temperature range: -20°C to +65°C (-4°F to +149°F) at maximum 95% relative humidity. Provides a 0 to 20 mA dc supervised current output for transmitting detector status information to other devices. The 0-20 mA circuit is wired in a non-isolated configuration and can drive a maximum loop resistance of 300 ohms from 12 to 17.9 Vdc, 500 ohms from 18 to 19.9 Vdc, and 600 ohms from 20 to 30 Vdc.

The following Hazardous Locations ratings apply to the Models U5015 and 30-3013:

Explosionproof - Intrinsically Safe for Class I, Division 1, Groups BCD, T4 -20°C ≤ Ta ≤ 65°C; Type IP44
Nonincendive - Intrinsically Safe for Class I, Division 2, Groups ABCD, T4 -20°C ≤ Ta ≤ 65°C; Type IP44
Flameproof – Intrinsically Safe for Class I, Zone 1, AEx db ia IIC T4 Gb -20°C ≤ Ta ≤ 65°C; Type IP44

aAbcdeFM Explosionproof Photoelectric Type Smoke Detector

a = Model Type U5015 or 30-3013

b = Type Port 1, 2, 3, or 4.

c = Type Thread E, F, N, or M.

d = Type Output 12 or 13

e = Type Approvals A or F

Special Condition of Use:

1. The U5015 and 30-3013 are to be installed in locations where risk of mechanical damage is low.
2. Potential Electrostatic Charging Hazard please see instructions for proper Installation
3. All Unused device openings must be closed using a suitably certified plug.
4. For Field Connections, Use Wire rated 20°C greater than maximum ambient temperature.
5. For AEx db rated Models U5015 and 30-3013 Smoke Detectors, the flameproof joints are not allowed to be repaired per manufacturer's instruction manual.



Member of the FM Global Group