



# Certificate of Compliance

**Certificate:** 70006476

**Master Contract:** 258989

**Project:** 70006476

**Date Issued:** September 23, 2014

**Issued to:** Firefly AB

Textilgatan 31  
Stockholm, Stockholm County 120 30  
Sweden  
Attention: Leo Jubinville

*The products listed below are eligible to bear the CSA Mark shown*



*Joshua Burdeshaw*

**Issued by:** Joshua Burdeshaw

## **PRODUCTS**

**CLASS 4818 03** - SIGNAL APPLIANCES - Miscellaneous - For Hazardous Locations

Part A

Class I, Groups B, C and D; Class II, Groups E, F and G; Class III:

- UV-IR Flame Detector, Series 850 (with suffixes), rated 20-32V dc, 310mA max. Relay output (for Series 850-0 and 850-1 only) 6A at 28V dc/250V ac. Ambient -40 to 85oC. Enclosure Type 4 rated.

Part B

Class I, Groups B, C and D; Class II, Groups E, F and G; Class III:

- UV-IR Flame Detector, Series 860 (with suffixes), rated 20-32V dc, 300mA max. with optional relay (30VDC, 2A), 0-20 mA and RS485 output. Ambient -40 to 85oC. Enclosure Type 4X rated.

Part C

Class I, Groups B, C and D; Class II, Groups E, F and G; Class III:

- UV Flame Detector, Series 660 (with suffixes), rated 20-32V dc, 350mA max. With optional relay (30VDC, 2A), 0-20 mA and RS485 output. Ambient -40 to 85C or -40 to 125C. Enclosure Type 4X rated.



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### **APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No. 0-M91	- General Requirements - Canadian Electrical Code, Part II
CSA Std C22.2 No. 25-1966	- Enclosures for Use in Class II, Groups E, F and G Hazardous
CSA Std C22.2 No. 30-M1986	- Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CAN/CSA-C22.2 No. 94-M91	- Special Purpose Enclosures
CSA Std C22.2 No. 142-M1987	-Process Control Equipment

### **MARKINGS**

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

As shown in Fig 1, Sheet 4 of 6, Fig. 5, Sheet 4 of 5 and Fig. 6, Sheet 4 of 6.



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70006476	Sep 23, 2014	Evaluation for update of report 1001556 to include revised drawings and new o-ring material. Includes Type 4 hosedown testing.

### **History**

1385263 January 21, 2002 Alternate construction of pc boards.

1360069 January 9, 2003 Use of alternate miniature relay in high temperature, model 660-1XXXX fire detector and alternate fuse, terminal block and transformer in, model 660-XXXXX and 860-XXXXX.

1001556 November 8, 2000 Use of alternate miniature electromagnetic relays, Zettler P/N AZ8-1CH-24DSE and Aromat P/N TQ2SA-24V. Report 166583-1001556 supersedes report LR 19503-32.

LR 19503-45 May 13, 1998 Update to cover minor alternate construction and replacing Figures with latest revision.

LR 19503-43 April 9, 1998 Certification of model 860 and 660

LR 19503-41 December 18, 1997 Update to report to cover minor alternate construction and new numbering system.

LR 19503-40 August 21, 1997 Report update to include alternate housing material/conduit entry and addition of capacitors (C5 and C6).

LR 19503-37 February 24, 1997 Report update to include addition of spring clip and replace drawings with latest revision.

LR 19503-32 January 31, 1994 Original Certification. Report LR 19503-32 is superseded by number 166583-1001556.