



Member of the FM Global Group

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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

**Electronic Timer Module ETM-ISab-cde**

IS / I, II, III / 1 / ABCDEFG / T6 Ta = 60°C

I/O / AEx ia / IIC / T6 Ta = 60°C

Solenoid output parameters

Uo = 14.7 V

Io = 742 mA

Po = 2.72 W

Ci = 0

Li = 0

Input Parameters for when a = 2

Ui = 11.1V

Ii = 340 mA

Pi = 2.613 W (non linear)

- a = sub module            1 = Timer Module powered by Expo Battery Pack  
                                  2 = IS Power Supply  
                                  3 = Expo IS Battery Pack  
                                  4 = Expo IS remote Battery Pack
- b = Mounting Style        1 = Plate mounted  
                                  2 = Panel mounted
- c = LED connection       1 = LED's on Timer surface  
                                  2 = LED's on flying lead
- de = Maximum Time       d = Reference Value 1 to 9  
                                  e = Multiplying digit 1, 2, 3 or 4

**Special Conditions of Use**

1. *The Electronic Timer shall not be used where UV light or radiation may impinge the Electronic Timer System.*
2. *The Electronic Timer shall be installed within an enclosure which provides protection against impact.*
3. *The Enclosure shall be metallic providing a minimum IP20.*
4. *For light alloy enclosures, materials shall not contain, by mass, more than 7.5% in total of magnesium, titanium and zirconium. Where more than 10% in total of aluminium, magnesium, titanium and zirconium the user shall take special precautions to avoid ignition hazard due to impact or friction.*

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

## Equipment Ratings:

Intrinsically safe for Class I, II and III, Division 1, Groups A, B, C, D, E, F, and G indoor hazardous (Classified) locations. Temperature Class T6 at +60°C.

## FM Approved for:

Expo Technologies  
Sunbury on Thames, United Kingdom

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	2011
Class 3610	2010
Class 3810	2005
ANSI/ISA 60079-0	2009
ANSI/ISA 60079-11	2011

Original Project ID: 3036907

Approval Granted: October 21, 2010

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
130109	January 25, 2013		
3049400	October 18, 2013		

FM Approvals LLC



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J. E. Marquedant  
Group Manager, Electrical

18 October 2013

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Date

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