Certificate Number Baseefa09ATEX0027 Issue 4



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EU - TYPE EXAMINATION CERTIFICATE

Safety Device, Controlling Device or Regulating Device intended for use outside a potentially explosive atmosphere but required for or contributing to the safe functioning of Equipment and Protective Systems with respect to the risks of explosion

Directive 2014/34/EU

3 EU - Type Examination Certificate Number:

Baseefa09ATEX0027 - Issue 4

Number:

1

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: MTL5561 Two Channel Fire / Smoke Detector Interface

5 Manufacturer: Eaton Electric Limited

6 Address: Great Marlings, Butterfield, Luton, Bedfordshire, LU2 8DL

- This re-issued certificate extends EC Type Examination Certificate No. Baseefa09ATEX0027 to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.
- 8 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. See Certificate History

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012 + A11: 2013 EN 60079-11: 2012

except in respect of those requirements listed at item 18 of the Schedule.

- 10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- 11 This EU TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- 12 The marking of the product shall include the following:

(a) II (1) GD [Ex ia Ga] IIC (-20°C $\leq T_a \leq +60$ °C)

[Ex ia Da] IIIC (-20°C $\leq T_a \leq +60$ °C)

(a) I (M1) [Ex ia Ma] I (-20°C $\leq T_a \leq +60$ °C)

SGS Baseefa Customer Reference No. 0703

Project File No. 16/0371

This document is issued by the Company subject to its General Conditions for Certification Services accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and the Supplementary Terms and Conditions accessible at http://www.sgs.com/sGSBaseefa/Terms-and-Conditions.aspx Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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R S SINCLAIR POSSESSION TECHNICAL MANAGER
On behalf of SGS Baseefa Limited



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13 Schedule

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15 Description of Product

The MTL5561 Two Channel Fire / Smoke Detector Interface is designed to provide two separate loop-powered interface channels for the connection of fire and smoke detectors located in the hazardous area to unspecified apparatus in the non-hazardous area whilst restricting the transfer of energy from unspecified non-hazardous area apparatus to the intrinsically safe circuits by limitation of voltage and current.

The MTL5561 Two Channel Fire / Smoke Detector Interface comprises two isolating transformers that provide galvanic isolation between the hazardous and non-hazardous area circuitry, fuses, zener diodes and resistors providing voltage and current limitation on each channel. The above, together with other electronic components are mounted on a single printed circuit board and housed in a moulded plastic enclosure. Polarised plug and sockets are provided for hazardous and non-hazardous area connections.

Input / Output Parameters

Non-Hazardous Area Terminals 8, 9, 11 & 12

 $U_{\rm m} = 253 \text{V r.m.s.}$

The circuit connected to non-hazardous area terminals 8, 9, 11 & 12 are designed to operate from a d.c. supply voltage up to 35V.

Hazardous Area Terminals 2 & 3 w.r.t. 1 (Channel 1)

Or

14

Hazardous Area Terminals 5 & 6 w.r.t. 4 (Channel 2)

Each channel must be considered as a separate intrinsically safe circuit.

Load Parameters

The capacitance and either the inductance or inductance to resistance ratio (L/R) of the load connected to either channel must not exceed the following values:

GROUP	CAPACITANCE (µF)	INDUCTANCE (mH)	OR	L/R RATIO (µH/ohm)
IIC	0.083	4.2		56
IIB*	0.65	12.6		210
IIA	2.15	33.6		444
I	3.76	53.7		668

^{*} Group IIB parameters also applicable for associated apparatus [Ex ia Da] IIIC

Notes:

- 1) The above load parameters apply when one of the two conditions below is given:
 - the total L_i of the external circuit (excluding the cable) is < 1% of the L_o value or
 - the total C_i of the external circuit (excluding the cable) is < 1% of the C_o value.

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- 2) The above parameters are reduced to 50% when both of the two conditions below are given:
 - the total L_i of the external circuit (excluding the cable) is $\geq 1\%$ of the L_o value and
 - the total C_i of the external circuit (excluding the cable) is $\geq 1\%$ of the C_o value.

The reduced capacitance of the external circuit (including cable) shall not be greater than $1\mu F$ for Groups IIB, IIA & I and 600nF for Group IIC.

16 Report Number

GB/BAS/ExTR16.0238/00

17 Specific Conditions of Use

None

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject	Compliance
1.2.7	Protection against other hazards (LVD type requirements, etc.)	Manufacturer responsibility
1.2.8	Overloading of equipment (protection relays, etc.)	User/Installer responsibility
1.4.1	External effects	User/Installer responsibility
1.4.2	Aggressive substances, etc.	User/Installer responsibility

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
CI5561-1	1 of 1	4	7.16	MTL5561 Certification Label Details & DIN Rail Fittings – Baseefa

The above drawing is associated and held with IECEx BAS 09.0008 Iss. 5

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
CI4561-1	1 of 6	1	3.09	Parts List for MTL4561 / MTL5561
CI4561-1	2 of 6	2	9.09	MTL4561 and MTL5561 Circuit Diagram
CI4561-1	3 of 6	2	9.09	MTL4561 Track Layout
CI4561-1	4 of 6	3	1.13	MTL4561 Component Layout
CI4561-1	5 of 6	1	3.09	MTL4561 Two Channel Fire / Smoke Detector Interface, Loop-powered Transformer Winding Details
CI4500-2	1 of 1	2	8.09	MTL4500 Series Single Toroid I.S. Transformer
CI4500-3	1 of 1	1	12.10	MTL4500 & MTL5500 - Alternative Zener Diodes (Panjit)
CI4500-5	1 of 1	1	11.10	MTL5500 - Alternative DIN Rail Mechanism
CI4500-6	1 of 1	1	20.12.10	MTL4500 & MTL5500 - Conformal Coating
CI5500-100	1 of 1	3	1.13	New 5500 Outline

The above drawings are associated and held with IECEx Certificate No. IECEx BAS 09.0008.

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20 Certificate History

assessment against the requirements of EN 60079-0: 2006, EN 60079-11: 2007 and EN 6124-11: 2006 is documented in Certification Tes Report No. GB/BAS/EXTR09.0012/00. Baseefa09ATEX0027/1 31 January 2011 32 A January 2011 33 January 2011 34 A alternative fitting of ISMB3EZ** zener diodes in place of ISMB39**BT3 components currently fitted. 35 A January 2011 36 A January 2011 37 Deprint the alternative fitting of ISMB3EZ** zener diodes in place of ISMB39**BT3 components currently fitted. 38 A January 2011 39 October 2010 30 A laternative method of applying the conformal coating to the PCB fitted in the equipment not affecting the original assessment. 39 October 2010 30 A laternative method of applying the conformal coating to the PCB fitted in the equipment not affecting the original assessment. 39 October 2010 30 A laternative method of applying the conformal coating to the PCB fitted in the equipment to affecting the original assessment. 30 October 2010 31 January 2011 32 October 2014 33 January 2011 34 January 2011 35 October 2014 36 A January 2011 37 Opermit the alternative fitting of ISMB3EZ** zener diodes in place of ISMB39**BT30 components currently fitted. 38 January 2011 39 Opermit the use of an alternative DIN rail mechanism no affecting the original assessment. 30 Opermit the current design of the MTL5561 Two Channe Fire / Smoke Detector Interface has been reviewed against the requirements of EN 60079-0: 2009, EN 60079-0: 2001 and EN 6124-11: 2006 and none of the differences affect the equipment. In accordance with EN 60079-0: 2001, EN 60079-0:	Certificate No.	Date	Comments
transformers not affecting the original assessment. ii) To permit minor changes to the label drawing not affecting the original assessment. The associated test and assessment is documented in Certification Report No. GB/BAS/ExTR09.0188/00. Baseefa09ATEX0027/2 31 January 2011 i) To permit the alternative fitting of ISMB3EZ** zener diodes in place of ISMB59**BT3 components currently fitted. ii) An alternative method of applying the conformal coating to the PCB fitted in the equipment not affecting the original assessment. iii) To permit the use of an alternative DIN rail mechanism no affecting the original assessment. iv) To confirm the current design of the MTL5561 Two Channe Fire / Smoke Detector Interface has been reviewed against the requirements of EN 60079-0: 2009 in respect of the difference from EN 60079-0: 2009, the equipment markings were revised to include the Equipment Protection Level (EPL markings). The associated test and assessment is documented in Certification Report No. GB/BAS/ExTR10.0297/00. Baseefa09ATEX0027/3 28 March 2014 i) To permit minor component and drawing changes not affecting the original assessment. ii) To confirm the current design of the MTL5561 Two Channe Fire / Smoke Detector Interface has been reviewed against the requirements of EN 60079-0: 2012 EN 60079-11: 2012 in respect of the differences from EN 60079-0: 2012 EN 60079-11: 2012 on and EN 61241-11: 2006 and none of the differences affect the equipment. In accordance with EN 60079-11: 2012, the Group capacitive load parameters were corrected and the associated loap parameter notes were updated. The associated assessment is documented in Certification Report Not GB/BAS/ExTR14.0065/00. Baseefa09ATEX0027 Issue 4 5 October 2016 This issue of the certificate incorporates previously issued primary applementary certificates into one certificate and confirms the current designs meet the requirements of EN 60079-0: 2012 + A11: 2013 and EN 60079-0: 2012 the A11: 2013. The estrificate also permits the manufacturer's	Baseefa09ATEX0027	23 March 2009	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0: 2006, EN 60079-11: 2007 and EN 61241-11: 2006 is documented in Certification Test Report No. GB/BAS/ExTR09.0012/00.
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