




IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BAS 12.0113X	issue No.:1	Certificate history: Issue No. 1 (2016-11-16) Issue No. 0 (2013-2-6)
Status:	Current		
Date of Issue:	2016-11-16	Page 1 of 4	
Applicant:	Eaton Electric Limited Great Marlings Butterfield Luton Bedfordshire LU2 8DL United Kingdom		
Equipment: Optional accessory:	MTL5511 / MTL5514 / MTL5516C / MTL5517 Switch / Proximity Detector Interface		
Type of Protection:	Type of Protection 'nA nC'		
Marking:	Ex nA nC IIC T4 Gc (-20°C ≤ Ta ≤ +60°C)		
Approved for issue on behalf of the IECEx Certification Body:	R. S. Sinclair		
Position:	Technical Manager		
Signature: (for printed version)			
Date:	17 NOVEMBER 2016		

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom





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Manufacturer: **Eaton Electric Limited**
Great Marlings
Butterfield
Luton
Bedfordshire
LU2 8DL
United Kingdom

Additional Manufacturing location(s):

**MTL Instruments PVT
Limited**
No 3 Old Mahabalipuram
Road
Sholinganallur
Chennai
India

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition: 4

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:
GB/BAS/ExTR12.0259/00

GB/BAS/ExTR16.0242/00

Quality Assessment Report:

GB/BAS/QAR06.0022/06

GB/BAS/QAR07.0017/06



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The MTL5511 / MTL5514 / MTL5516C / MTL5517 Switch / Proximity Detector Interface are designed to restrict the transfer of energy from unspecified non-hazardous area equipment to up to two circuits located in the hazardous area by limitation of voltage and current. A Transformer and relays provide galvanic isolation between the hazardous and non-hazardous area circuitry.

Each channel of the interface monitors either a detector or switch located in the hazardous area and controls non-hazardous area loads via relays. Some models of the interface are fitted with independent phase reversal controls and Line Fault Detection (LFD) circuitry allow an alarm condition to be signalled for either state, set by switches on the side of the interface.

The equipment comprises an isolating transformer, relays, zener diodes and current limiting resistors to provide voltage and current limitation on each channel. These, together with other electronic components are mounted on a single printed circuit board (PCB) and housed in a moulded plastic enclosure. Polarised plugs and sockets are provided for hazardous and non-hazardous area connections. LED indication is provided to indicate Power-on, state of the outputs and LFD status.

This certificate covers the installation of the MTL5511 / MTL5514 / MTL5516C / MTL5517 Switch / Proximity Detector Interface (IECEx BAS 07.0067) in a Zone 2 location.

See certificate annex for electrical parameters.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1) The equipment must be installed in an enclosure or environment that provides a degree of protection of at least IP54 and meets the relevant requirements of IEC 60079-0: 2011 and IEC 60079-15: 2010.
- 2) All connections to the equipment must not be inserted or removed unless either the area in which the equipment is installed is known to be non-hazardous, or the circuit to which it is connected has been de-energised.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1.1

To permit the manufacturer's name to be changed on the certificate and equipment marking. No other changes are made to the equipment design.

ExTR: GB/BAS/ExTR16.0242/00

File Reference: 16/0371

SGS Baseefa Limited

Rockhead Business Park
Staden lane, Buxton, Derbyshire
SK17 9RZ
United Kingdom



ANNEX to IECEx BAS 12.0113X

Issue No. 0

Date: 2013/02/06

MTL5511 / ML5514 / MTL5516C & MTL5517 Switch / Proximity Detector Interface

Model Range:

Model No.	
MTL5511	Single Channel Switch / Proximity Detector Interface
MTL5514	Single Channel Switch / Proximity Detector Interface with Line Fault Detection (LFD) Alarm
MTL5516C	Two Channel Switch / Proximity Detector Interface
MTL5517	Two Channel Switch / Proximity Detector Interface with Line Fault Detection (LFD) Alarm

Input / Output Parameters:

Supply Circuit – Terminals 13 & 14

$U_i = 20 - 35V$ d.c.

Detector / Switch Inputs – Terminals 1 w.r.t. 2 / 3 (Channel 1) & Terminals 4 w.r.t. 5 / 6 (Channel 2*)

7 – 9V d.c.

or

The maximum values for the intrinsically safe circuits have to be taken from IECEx Certificate No. IECEx BAS 07.0067.

Relay Contact Outputs – Terminals 7, 8 & 9 (Channel 1) & Terminals 10, 11, & 12 (Channel 2*)

Single pole relays with changeover contacts can switch up to 35V, 2A and 100VA.

* For MTL5516C & MTL5517 models only