



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 05.0063 issue No.: 1

Status: **Current**

Certificate history:
Issue No. 1 (2009-5-6)
Issue No. 0 (2005-11-14)

Date of Issue: **2009-05-06** Page 1 of 4


Applicant: **Measurement Technology Limited**
Great Marlings
Butterfield
Luton
Bedfordshire
LU2 8DL
United Kingdom

Electrical Apparatus: **MTL5018 Two Channel and MTL5011B Single Channel Switch / Proximity Detector Interface with Line Fault Detection & Phase Reversal**
Optional accessory:

Type of Protection: **Intrinsic Safety**

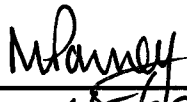

Marking: **IECEX BAS 05.0063**
[Ex ia] IIC
-20°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx
Certification Body:

 R S Sinclair

Position: **Managing Director**

Signature:
(for printed version)



6/5/09

Date:

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.

Certificate issued by:

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





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Manufacturer: **Measurement Technology Limited**
Great Marlings
Butterfield
Luton
Bedfordshire
LU2 8DL
United Kingdom

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 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'

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

IECEX ATR:
UK/BAS/05/0464/1

File Reference:
05/0464



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The MTL5018 Two Channel Switch / Proximity Detector Interface with Line Fault Detection and Phase Reversal is designed to restrict the transfer of energy from unspecified non-hazardous area apparatus to two independent intrinsically safe circuits by limitation of voltage and current. A transformer and two opto-couplers provide galvanic isolation between the hazardous and non-hazardous area circuitry. Two relays are used to switch the output loads in the non-hazardous area. LED indication is provided to indicate power-on and the state of each output.

The MTL5018 apparatus comprises two non-I.S. relays, a single isolating transformer, two opto-couplers, two independent detection circuits each with zener diode / diode / resistor combinations to provide voltage and current limitation. The above, together with other electronic components are mounted on a single printed circuit board and housed in a moulded plastic enclosure. Polarised plugs and sockets are provided for hazardous and non-hazardous area connections

The MTL5011B Single Switch / Proximity Detector Interface with Line Fault Detection and Phase Reversal is similar to MTL5018 but has only one channel fitted and uses only one relay.

See annex for electrical parameters.

CONDITIONS OF CERTIFICATION: NO



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

Variation 1.1

This document permits existing information (for example on Schedule Drawings) to be replaced by the revised certificate holders address. No other changes may be made to the certified design.