



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa08ATEX0083**

4 Equipment or Protective System: **MTL4526 Two Channel Switch-Operated Relay Output**

5 Manufacturer: **Measurement Technology Limited**

6 Address: **Power Court, Luton, Bedfordshire. LU1 3JJ**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems 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. GB/BAS/ExTR08.0064/00

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


EN 60079-0: 2006 EN 60079-11: 2007 EN 61241-11: 2006

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 equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

 **II (1) GD** [Ex ia] IIC $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
[Ex iaD]

 **I (M1)** [Ex ia] I

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. 0703

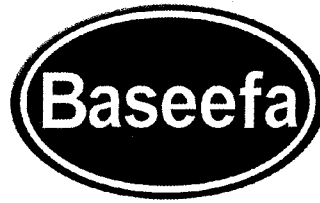
Project File No. 07/0843

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa

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Re-issued 23 September 2008 to replace original



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Schedule

14

Certificate Number Baseefa08ATEX0083

15 Description of Equipment or Protective System

The MTL4526 Two Channel Switch-operated Relay Output is designed to enable two separate intrinsically safe circuits to be switched via relay contacts by on/off switches or logic signals from unspecified apparatus in the non-hazardous area. Configuration switches on the apparatus allow the two relay output channels to be alternatively controlled by one input. Each non-hazardous area input can also be loop powered. Two relays provide galvanic isolation between the hazardous and non-hazardous area circuitry.

Each channel of the apparatus comprises a relay, a zener diode and a fuse to provide voltage and current limitation to the relay. The above, together with other electronic components are mounted on a printed circuit board and housed in a moulded plastic enclosure. Polarised plugs and sockets are provided for hazardous and non-hazardous area connections. LED indication is provided for status of each output channel and power-on.

Input / Output Parameters

Non-Hazardous Area Terminals 8, 9, 10, 11, 13 & 14

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

The circuit connected to non-hazardous area terminals 8, 9, 10, 11, 13 & 14 are designed to operate from a d.c. supply voltage up to 35V.

Hazardous Area Terminals 1 to 3 (Channel 1) or Hazardous Area Terminals 4 to 6 (Channel 2)

$$\begin{array}{ll} U_i = 30V & U_o = 0 \\ C_i = 0 & I_o = 0 \\ L_i = 0 & \end{array}$$

16 Report Number

GB/BAS/ExTR08.0064/00

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
CI4526-1	1 of 5	1	4.08	Parts List for MTL4526
CI4526-1	2 of 5	1	3.08	MTL4526 Final Assembly
CI4526-1	3 of 5	1	4.08	MTL4526 Track Layout
CI4526-1	4 of 5	1	4.08	MTL4526 Component Layout
CI4526-1	5 of 5	1	4.08	MTL4526 Certification Label Details – Baseefa
CI4500-100	1 of 1	1	8.06	MTL 4500 Case

The above drawings are associated and held with IECEx Certificate No. IECEx BAS 08.0029