



EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : **BAS02ATEX2108X**

Equipment or Protective System: **TYPE SL5/1 STATUS LAMP**

Manufacturer: **MEDC LTD**

Address: **Pinxton, Nottingham, NG16 6JF**

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

The Electrical Equipment Certification Service, notified body number 600 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 N°


01(C)1015 dated 24 April 2002

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014: 1997 + Amds 1 & 2 **EN 50019: 2000** **EN 50028: 1987 + Amd 1**
except in respect of those requirements listed at item 18 of the Schedule.

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.

This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

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

 **II 2 G (see schedule)**

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

File No: **EECS 0676/03/025**

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



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I M CLEARE
DIRECTOR
30 April 2002



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Schedule

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Description of Equipment or Protective System

A Type SL5/1 Status Lamp comprises of a glass reinforced polyester enclosure and cover secured by 4 captive M5 screws utilising a 3.5mm diameter nitrile 'O' ring located in a lip in the cover to provide effective sealing of at least IP54. A clear polycarbonate dome shaped lens screws into an M82 threaded hole in the cover and is sealed in place using silicone adhesive. The enclosure is fitted with a label stating 'WARNING - To avoid electrostatic charge build up - clean enclosure exterior with a damp cloth'.

A WECO Type DFG2 internal earth terminal is provided covered by PTB certificate Ex91.C.3123U. Alternatively Weidmuller AKE4 or AKE2.5 rail mounted earth terminals covered by PTB certificate Ex89C3129U and L.C.I.E. certificate 89B0007U may be used. Component approved cable entries which maintain the ingress protection of the enclosure shall be used.

Three different types of light source can be used as described below.

Filament lamps

A potted bulb assembly consisting of two 5W filament lamps encapsulated in a mounting assembly and attached to the cover. The wiring is terminated in rail mounted Weidmuller AKZ4 or AKZ2.5 terminals covered by component certificate KEMA Ex94.C7609U secured to the base of the enclosure. Supply voltages of up to 260V a.c. or d.c. are permitted. The marking of filament lamp versions shall include:

⊕ II 2G EEx e II T3 T_{amb} -40°C to 55°C

High Output LED's

An Array of 64 LED's, either red, amber, green or blue, are encapsulated within the domed polycarbonate lens. The LED's may operate continuously or flashing at a rate of 60 flashes per minute controlled by an encapsulated timer circuit located within the base of the enclosure. Weidmuller AKZ4 or AKZ2.5 component approved EEx e rail mounted terminals are secured to pillars locating them above the timer circuit assembly. Supply voltages of up to 48V d.c. are permitted. The marking of LED versions shall include:

⊕ II 2G EEx em II T4 T_{amb} -40°C to 45°C

Xenon Discharge Tubes

Two xenon discharge tubes are encapsulated within the domed polycarbonate lens. The xenons operate flashing at a rate of 60 flashes per minute controlled by an encapsulated timer circuit located within the base of the enclosure. Weidmuller AKZ4 or AKZ2.5 component approved EEx e rail mounted terminals are secured to pillars locating them above the timer circuit assembly. Supply voltages of up to 48V d.c. are permitted. The marking of Xenon versions shall include:

⊕ II 2G EEx em II T4 T_{amb} -40°C to 55°C



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Up to five individual Status Lamps of the same type and electrical rating may be interconnected using a threaded nipple and lock nut arrangement. The interface is sealed with a silicone rubber gasket to maintain the ingress protection. The designation of the interconnected units is either SL5/2, SL5/3, SL5/4 or SL5/5 for 2, 3, 4 and 5 way units respectively.

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17 **Special Conditions For Safe Use**

1. All terminals, whether used or not, shall be fully tightened down.
2. Interconnected units must be of the same lamp type and electrical rating.

18 **Essential Health and Safety Requirements**

None that are not covered by assessment against harmonised standards EN 50014: 1997 and EN 50019: 2000 and non-harmonised standard EN 50028: 1987.

19 **DRAWINGS**

Number	Sheet	Issue	Date	Description
230-238	1 of 2	A	6/3/02	Certification GA
230-238	2 of 2	A	6/3/02	Enclosure/cover details
230-245	1 of 1	A	7/3/02	Filament bulb assembly
230-160	1 of 1	B	12/7/00	LED circuit diagram
230-239	1 of 2	A	1/3/02	GA for SL5 LED/Xenon
230-239	2 of 2	A	1/3/02	GA for SL5 LED/Xenon
230-199	1 of 1	B	13/10/00	Xenon circuit diagram

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BASEEFA List Keywords
2INDICAT



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate **BAS02ATEX2108X/1**
Number :

4 Equipment or protective system: **Type SL5/1 Status Lamp**

5 Manufacturer : **MEDC Limited**

6 Address : **Pinxton, Nottingham, NG16 6JF**

7 This supplementary certificate, issued by Baseefa (2001) Ltd., Notified Body Number 1180, extends EC - Type Examination Certificate No. BAS02ATEX2108X to apply to equipment or protective systems 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.

This Supplementary Certificate shall be held with the original Certificate

The Electrical Equipment Certification Service, Notified Body Number 0600, retains responsibility for its original documentation. Baseefa (2001) Ltd. is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate that it has issued.

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

Baseefa (2001) Ltd. Customer Reference No. **0676**

Project File No. **02/0262**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.

Baseefa (2001) Ltd.

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Schedule

Description of the variation to the Equipment or Protective System

Variation 1.1

To permit alternative Type AKZ4, AKZ2.5, AKE4 and AKE2.5 terminals to SIRA02ATEX3001U.

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None

Additional Special Condition for Safe Use

The terminals shall only be installed and wired with cable in a temperature range of -10°C to $+80^{\circ}\text{C}$

Essential Health and Safety Requirements

None

Drawings and Documents

Number	Sheet	Issue	Date	Description
230-238	1	B	20.08.02	Certification GA
230-238	2	B	20.08.02	Enclosure / cover details
230-239	1	B	20.08.02	GA for SL5 LED/Xenon
230-239	2	B	20.08.02	GA for SL5 LED/Xenon