



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)**

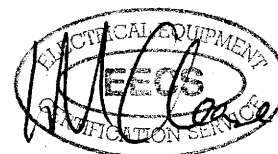
This certificate may only be reproduced in its entirety and without any change, schedule included.

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**

Re-issued 17 September 2002 to implement minor changes

CERTATEXEQUIPCAT1-2P, Issue 1, Dated September 1998



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Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS02ATEX2108X

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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 Weidmuller AKE4 rail mounted earth terminal is provided, covered by BASEEFA Certificate BAS01ATEX2378U. 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 terminals covered by Component Certificate BAS01ATEX2378U 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 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.

16. Report No.

01(C)1015

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

A handwritten signature in black ink, appearing to read "R S Sinclair".

R S SINCLAIR

DIRECTOR
On behalf of
Baseefa (2001) Ltd.

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.

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.

Report No.

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



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 Number: **BAS02ATEX2108X/2**

4 Equipment or Protective System: **Type SL5/1 Status Lamp**

5 Manufacturer: **MEDC Limited**

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

7 This supplementary certificate 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 original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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



Baseefa Customer Reference No. 0676

Project File No. 07/0522

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.

Baseefa

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Baseefa is a trading name of Baseefa (2001) Ltd
Registered in England No. 4305578 at the above address



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



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Schedule

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Certificate Number BAS02ATEX2108X/2

15

Description of the variation to the Equipment or Protective System

Variation 2.1

Additional blue and white colour options to the high output LED assembly.

16

Report Number

None

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Special Conditions for Safe Use

None additional to those listed previously

18

Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19

Drawings and Documents

Number	Issue	Date	Description
230-239 Sheets 1 & 2	C	08/06/07	General Arrangement and Potting Detail
230-160	C	11/06/07	LED Circuit Diagram



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 Number: **BAS02ATEX2108X/3**

4 Equipment or Protective System: **Type SL5/1 Status Lamp**

5 Manufacturer: **Cooper MEDC Limited**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. BAS02ATEX2108X/3 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.

8 Item 9 of the original Certificate is replaced by “Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2009 EN 60079-7: 2007 EN 60079-18: 2009

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

9 The marking of the equipment has changed from the original Certificate and shall include the following:

⊕ II 2G	Ex e IIC T3 Gb	(Tamb -40°C to +55°C)	Filament Lamp Type
	Ex e mb IIC T4 Gb	(Tamb -40°C to +45°C)	LED Lamp Type
	Ex e mb IIC T4 Gb	(Tamb -40°C to +55°C)	Xenon Lamp Type

This certificate shall be held with the original certificate and may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0676**

Project File No. **11/0310**

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.

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Baseefa is a trading name of Baseefa Ltd

Registered in England No. 4305578. Registered address as above.


R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number BAS02ATEX2108X/3

15 Description of the variation to the Equipment or Protective System

Variation 3.1

To include the fitting of 2x M25 entries into specific sides of the equipment enclosure.

Variation 3.2

To include new materials for the construction of the Twin Filament Lamp enclosure.

Variation 3.3

To update the assessment of the equipment to the requirements EN 60079-0:2009, EN 60079-7:2007 and EN 60079-18:2009. The marking is updated to the following;

Ⓔ II 2G	Ex e IIC T3 Gb	(Tamb -40°C to +55°C)	Filament Lamp Type
	Ex e mb IIC T4 Gb	(Tamb -40°C to +45°C)	LED Lamp Type
	Ex e mb IIC T4 Gb	(Tamb -40°C to +55°C)	Xenon Lamp Type

16 Report Number

GB/BAS/ExTR11.0201/00

17 Specific Conditions of Use

The specific conditions of use are updated to the following;

1. All terminals, whether used or not, shall be fully tightened down.
2. Interconnected units must be of the same electrical rating.
3. The terminals shall only be installed and wired with cable in a temperature range of -10°C to +80°C.
4. The cable entry devices used on the equipment shall be suitably ATEX equipment certified and maintain the IP54 minimum of the enclosure. Unused cable entries must be fitted with suitable ATEX equipment certified stopping plugs that maintain the IP54 minimum of the enclosure.
5. The equipment shall be connected by a supply with a 1500A short-circuit current capable fuse.

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.



19 Drawings and Documents

All previous drawings are updated and replaced with the following;

Number	Sheet	Issue	Date	Description
230-403	1 to 3	A	4/7/11	ATEX 60079 Certification G.A SL5 Status Lamp
230-404	1 to 3	A	4/7/11	IECEX 60079 Certification G.A SL5 Status Lamp
230-245	1 of 1	B	7/9/11	Twin Lamp Assembly Certification
230-102	1 of 1	A	16/9/97	SL5 Certification Wiring Diagram (5 Way Common Neutrals)
230-160	1 of 1	D	7/7/11	Certification S15 LED Main Circuit Diagram
230-199	1 of 1	B	13/10/00	Certification Circuit Diagram SL5 Xenon Beacon 24/48V DC