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 10.0101	Issue No: 2	Certificate history:
Status:	**Current**	Page 1 of 4	Issue No. 2 (2015-04-14) Issue No. 1 (2013-03-04) Issue No. 0 (2010-10-26)
Date of Issue:	**2015-04-14**		

Applicant: **Cooper MEDC Limited**
Unit B, Sutton Parkway
Oddicroft Lane
Sutton-in-Ashfield
NG17 5FB
United Kingdom

Electrical Apparatus: **A Type XB11 Beacon**

Optional accessory:

Type of Protection: **Flameproof and dust protected**

Marking: **Ex d IIB T* Ta -55°C to + **°C Gb**
Ex tb IIIC T*°C Ta -55°C to +**°C Db IP66/IP67**
*** See schedule**

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Technical Manager

Signature:
(for printed version)

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:

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

IECEx Certificate of Conformity

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Manufacturer:	**Cooper MEDC Limited** Unit B, Sutton Parkway Oddicroft Lane Sutton-in-Ashfield NG17 5FB **United Kingdom**	

Additional Manufacturing location(s):

Dongguan Fuli'an Electronics Co Ltd
3/F No 24 Jian'an Road, Xin Min Industrial District, Chang'an Town, Dongguan City, Guangdong, 523879
China

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 : 2007-10 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*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/ExTR10.0218/00 GB/BAS/ExTR14.0115/00

Quality Assessment Report:

GB/BAS/QAR06.0023/05 GB/BAS/QAR15.0003/00

IECEx Certificate of Conformity

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type XB11 Beacon comprises a cylindrical enclosure base and cover manufactured from glass reinforced polyester. The cover is secured with M5 stainless steel screws of grade A2-70 or A4-80, and is fitted with a glass wellglass which may be provided with a wire guard.

The base is provided with two threaded cable entries and a mounting strap.

The enclosure houses various internal arrangements as indicated below.

A Xenon tube and associated printed circuit board to form a type XB11 Xenon Beacon, with control electronics and terminals. In this form the Xenon Beacon is rated up to 48Vdc, 240Vac, 13W.

A filament lamp rated up to 48Vdc, 254Vac, 10W to form a type FB11 Luminaire.

Up to two fluorescent lamps, control electronics and ballasts rated up to 24Vdc, 240Vac, 5W or 10W to form a type FL11 Luminaire.

See schedule for full details

CONDITIONS OF CERTIFICATION: NO

IECEx Certificate of Conformity

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

Variation 2.1

To confirm the addition of an alternative assembly location.

ExTR: **GB/BAS/ExTR14.0115/00**	File Reference: **14/0268**

Annex:

Annex for IECEx BAS 10.0101.pdf

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The enclosure houses various internal arrangements as indicated below.

A Xenon tube and associated printed circuit board to form a type XB11 Xenon Beacon, with control electronics and terminals. In this form the Xenon Beacon is rated up to 48Vdc, 240Vac, 13W.

A filament lamp rated up to 48Vdc, 254Vac, 10W to form a type FB11 Luminaire.

Up to two fluorescent lamps, control electronics and ballasts rated up to 24Vdc, 240Vac, 5W or 10W to form a type FL11 Luminaire

Beacon	Power (Watts)	Temperature classification	Temperature Marking	Ambient temperature range	Cable Temperature Rise (K)
XB11	13	T4	T105°C	-55°C to + 70°C	20
		T5	T90°C	-55°C to + 55°C	
		T6	T75°C	-55°C to + 40°C	
FB11	10	T4	T110°C	-55°C to + 70°C	15
		T5	T85°C	-55°C to + 55°C	
		T6	T70°C	-55°C to + 40°C	
FL11	10	T4	T110°C	-55°C to + 70°C	25
		T5	T85°C	-55°C to + 55°C	
		T6	T70°C	-55°C to + 40°C	
	5	T5	T85°C	-55°C to + 70°C	15
		T6	T70°C	-55°C to + 55°C	

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure