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 10.0094	Issue No: 4	Certificate history:
Status:	**Current**	Page 1 of 4	Issue No. 4 (2014-03-17) Issue No. 3 (2013-05-03) Issue No. 2 (2013-03-04) Issue No. 1 (2011-11-17) Issue No. 0 (2010-10-01)
Date of Issue:	**2014-03-17**		
Applicant:	**Cooper MEDC Limited** Unit B, Sutton Parkway Oddicroft Lane Sutton-in-Ashfield NG17 5FB **United Kingdom**		
Electrical Apparatus:	**A Type XB12 Beacon**		
Optional accessory:			
Type of Protection:	**Flameproof**		
Marking:	**Ex d IIB T* Ta -**°C to + *°C Gb** *** See schedule**		

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

Position: General 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

Certificate No:	IECEx BAS 10.0094	Issue No: 4
Date of Issue:	**2014-03-17**	Page 2 of 4
Manufacturer:	**Cooper MEDC Limited** Unit B, Sutton Parkway Oddicroft Lane Sutton-in-Ashfield NG17 5FB **United Kingdom**	
Additional Manufacturing location(s):		

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"

*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/ExTR09.0249/00 GB/BAS/ExTR11.0291/00 GB/BAS/ExTR13.0093/00
GB/BAS/ExTR14.0005/00

Quality Assessment Report:

GB/BAS/QAR06.0023/05

IECEx Certificate of Conformity

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type XB12 Beacon comprises a cylindrical enclosure base and cover manufactured from glass reinforced polyester. The cover is secured with M8 screws of grade A2-70 or A4-80 stainless steel, and is fitted with a wellglass which may be provided with a wire guard.

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

The enclosure houses various internal arrangements as indicated below.

A Xenon tube and associated printed circuit board to form a type XB12 Xenon Beacon, with control electronics and terminals. In this form the Xenon Beacon is rated up to 48V d.c., 254V a.c., 50W

A filament lamp rated up to 48V d.c., 254V a.c., 60W or 100W to form a type FB12 Luminaire.

Up to three fluorescent lamps, control electronics and ballasts rated up to 24V d.c., 240V a.c., 3W, 26W and 39W respectively to form a type FL12 Luminaire.

A rotating tungsten halogen lamp assembly and control gear rated up to 24V d.c., 240V a.c. , 55W or 70W to form a type TH12 beacon.

See Annex for more information.

CONDITIONS OF CERTIFICATION: NO

IECEx Certificate of Conformity

Certificate No:	IECEx BAS 10.0094	Issue No: 4
Date of Issue:	**2014-03-17**	Page 4 of 4

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

Variation 4.1

To permit a change of inline and end of line resistor values.

ExTR: **GB/BAS/ ExTR14.0005 /00**	File Reference: **13/1035**

Annex:

IECEx BAS 10.0094 Annex.pdf

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

The Type XB12 Beacon comprises a cylindrical enclosure base and cover manufactured from glass reinforced polyester. The cover is secured with M8 screws of grade A2-70 or A4-80 stainless steel, and is fitted with a wellglass which may be provided with a wire guard.

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

The enclosure houses various internal arrangements as indicated below.

A Xenon tube and associated printed circuit board to form a type XB12 Xenon Beacon, with control electronics and terminals. In this form the Xenon Beacon is rated up to 48Vdc, 254Vac, 50W

A filament lamp rated up to 48V dc, 254Vac, 60W or 100W to form a type FB12 Luminaire.

Up to three fluorescent lamps, control electronics and ballasts rated up to 24Vdc, 240Vac, 13W 26W and 39W respectively to form a type FL12 Luminaire.

A rotating tungsten halogen lamp assembly and control gear rated up to 24Vdc, 240Vac, 55W or 70W to form a type TH12 beacon.

Beacon	Watts	Temperature classification	Ambient temperature range	Cable Temperature Rise (K)
XB12	50	T4	-55°C to + 85°C	30
		T5	-55°C to + 55°C	
		T6	-55°C to + 40°C	
FB12	100	T3	-55°C to + 20°C	60
	60	T4	-55°C to + 55°C	35
		T5	-55°C to + 30°C	
FL12	39	T4	-20°C to + 70°C	40
		T5	-20°C to + 40°C	
	26	T4	-20°C to + 85°C	35
		T5	-20°C to + 55°C	
		T6	-20°C to + 40°C	
	13	T4	-20°C to + 85°C	30
		T5	-20°C to + 55°C	
		T6	-20°C to + 40°C	
TH12	70	T3	-55°C to + 70°C	60
		T4	-55°C to + 55°C	
	55	T3	-55°C to + 70°C	30
		T4	-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).