



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 10.0078X Issue No: 3 Certificate history:
Status: **Current** Page 1 of 4 Issue No. 3 (2014-01-23)
Date of Issue: **2014-01-23** Issue No. 2 (2013-03-04)
Applicant: **Cooper MEDC Limited** Issue No. 1 (2011-10-28)
Unit B, Sutton Parkway Issue No. 0 (2010-10-28)
Oddicroft Lane
Sutton-in-Ashfield
NG17 5FB
United Kingdom

Electrical Apparatus: **XB4 Beacon**
Optional accessory:

Type of Protection: **Flameproof and Dust Protected**

Marking: **Ex d IIC T* Ta -55°C to + **C Gb**
Ex tb IIIC TC Ta -55°C to + **C Db IP6X**

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](http://www.iecex.com).

Certificate issued by:

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





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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):

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/ExTR10.0171/00](#)

[GB/BAS/ExTR10.0171/01](#)

[GB/BAS/ExTR14.0018/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0023/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type XB4 Beacon comprises a cylindrical enclosure base and cover manufactured from cast stainless steel or aluminium alloy. The cover is secured with M8 screws of grade A4-80 stainless steel, and is fitted with a wellglass which may be provided with a wire guard.

The base is provided with a flat portion for up to three threaded cable entries.

The enclosure houses various internal arrangements as indicated below.

Up to two 10J xenon tubes and associated printed circuit board to form a type XB4 Xenon Beacon, with control electronics and terminals. In this form the Xenon Beacon is rated up to 110V d.c., 254V a.c.

A filament lamp rated up to 48V d.c., 254V a.c., 60/100W to form a type FB4 Luminaire.

Up to three fluorescent lamps, control electronics and ballasts rated up to 48V d.c., 240V a.c., 13W, 26W or 39W to form a type FL4 Luminaire.

See Annex for full details.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The flameproof cable entry device used with the equipment shall be suitable for the entry arrangement and maintain the ingress protection level IP6X.



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

Variation 3.1

Addition of an example wiring diagram with the specifications for the optional in-line and end of line resistors. The existing ratings of the units are unaffected.

Variation 3.2

Confirmation of the removal of the reference to certification Standard IEC 60079-7: 2006-07 from the certification documents .

ExTR: **GB/BAS/ExTR14.0018/00**

File Reference: **14/0046**

Annex:

[IECEx BAS 10.0078X Annex.pdf](#)

Baseefa

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



ANNEX to IECEx BAS 10.0078X

Issue No. 0

Date: 2010/10/28

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The temperature classification and ambient temperature range for the beacons fitted with the specified lamps are indicated below.

Beacon	Watts	Temperature classification	Marked Temperature	Ambient temperature range	Cable Temperature Rise (K)
XB4	2x10J	T4	T135°C	-55°C to + 85°C	25
		T5	T100°C	-55°C to + 55°C.	
		T6	T85°C	-55°C to + 40°C.	
FB4	100	T3	T185°C	-55°C to + 55°C.	60
	60	T4	T135°C	-55°C to + 70°C	34
		T5	T100°C	-55°C to + 30°C	
FL4	39	T4	T135°C	-55°C to + 70°C	37
		T5	T100°C	-55°C to + 40°C	
	26	T4	T135°C	-55°C to + 85°C	29
		T5	T100°C	-55°C to + 55°C	
		T6	T85°C	-55°C to + 40°C	
	13	T4	T135°C	-55°C to + 85°C	26
		T5	T100°C	-55°C to + 55°C	
		T6	T85°C	-55°C to + 40°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