



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: **Baseefa04ATEX0009X/6**

4 Equipment or Protective System: **Type XB15 Xenon Beacon**

5 Manufacturer: **Cooper MEDC Limited**

6 Address: **Unit B, Sutton Parkway, Oddcroft Lane, Sutton in Ashfield,
Nottinghamshire, NG17 5FB**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0009X** 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:

EN60079-0: 2012 Edition 6

EN60079-1: 2007 Edition 6

EN60079-31: 2009 Edition 1

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:

Ex II 2 GD Exd IIC T* Gb Ex tb IIIC T*°C Db (Tamb. -55°C to + °C) * See schedule

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. **11/1000**

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.



Baseefa

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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



13

Schedule

14

Certificate Number Baseefa04ATEX0009X/6

15 Description of the variation to the Equipment or Protective System

Variation 6.1

Re-design of the interior arrangement of the LD15 Beacon

Variation 6.2

Revision of temperature classes for the DC version of the LD15 Beacon

Variation 6.3

Revisions to the DC versions of the XB15 Beacon

Variation 6.4

Deletion of the FL15, TH15 and the AC version of the LD15 from the certificate

Variation 6.5

Revision to the manufacturer's address

Variation 6.6

The equipment covered by this certificate has been reviewed against the requirements of EN 60079-0: 2012, EN 60079-1: 2007 and EN60079-31: 2009 and compliance is confirmed.

Variation 6.7

The equipment marking is changed to:

⊕ II 2 GD Exd IIC T* Gb Ex tb IIIC T*°C Db (T_{amb.} -55°C to + °C) * See below

Beacon Type	Lamp Rating	Temperature Class
XB15	30W(15J & 10J)	T6/T85°C (T _{amb.} -55°C to +40°C)
		T5/T100°C (T _{amb.} -55°C to +55°C)
		T4/T135°C (T _{amb.} -55°C to +70°C)
	30W(5J)	T6/T85°C (T _{amb.} -55°C to +55°C)
		T5/T100°C (T _{amb.} -55°C to +70°C)
FB15	60W or 5W LED Bulb	T4/T135°C (T _{amb.} -55°C to +55°C)
		T3/T200°C (T _{amb.} -55°C to +70°C)
	100W	T3/T200°C (T _{amb.} -55°C to +40°C)
LD15	13.5W	T6/T85°C (T _{amb.} -55°C to +55°C)
		T5/T100°C (T _{amb.} -55°C to +70°C)

16 Report Number

GB/BAS/ExTR13.0026/00



17 Specific Conditions of 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	Sheet	Issue	Date	Description
379-103*	1 of 1	A	13/02/13	ATEX/IECEX Certification GA LD15 LED Beacon
379-104	1 of 1	B	13/02/13	LD15 ATEX Certification Label
276-142	1 of 1	F	12/02/13	ATEX Certification GA XB15/FB15 Beacon
276-451	1 of 1	A	01/02/13	XB15 ATEX Certification Label
276-439	1 of 1	B	13/02/13	FB15 ATEX Certification Label

*This drawing is common to and held with IECEX BAS 05.0048X

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 **Baseefa04ATEX0009X/7**
Examination Certificate Number:

4 Equipment or Protective System: **Type XB15 Xenon Beacon**

5 Manufacturer: **Cooper MEDC Limited**

6 Address: **Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield, NG17 5FB**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0009X** 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.

Baseefa Customer Reference No. **0676**

Project File No. **13/0569**

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SGS Baseefa Limited

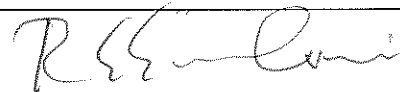
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Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN



R S SINCLAIR
GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa04ATEX0009X/7

15 **Description of the variation to the Equipment or Protective System**

Variation 7.1

To note correction to drawing of routine pressure test value together with minor dimensional changes that do not affect certification.

16 **Report Number**

GB/BAS/ExTR13.0174/00

17 **Specific Conditions of 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	Sheet	Issue	Date	Description
276-142	1	G	12.07.13	ATEX Certification GA XB15/FL15 Beacon

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: **Baseefa04ATEX0009X/8**

4 Equipment or Protective System: **Type XB15 Xenon Beacon**

5 Manufacturer: **Cooper MEDC Limited**

6 Address: **Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield, NG17 5FB**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa04ATEX0009X 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.

Baseefa Customer Reference No. **0676**

Project File No. **13/0779**

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SGS Baseefa Limited

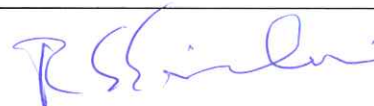
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R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

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Certificate Number Baseefa04ATEX0009X/8

15 Description of the variation to the Equipment or Protective System

Variation 8.1

The manufacturer requests supplementary certification to note changes to drawings controlled under certificates Baseefa04ATEX0009X and IECEX BAS 05.0048X. These changes are related to drawing names and other minor dimensional changes that do not affect certification.

16 Report Number

Baseefa Certification Report GB/BAS/ExTR13.0259/00.

17 Specific Conditions of 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	Sheet	Issue	Date	Description
276-142	1 of 1	H	25/09/13	ATEX/IECEX Certification General Assembly

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: **Baseefa04ATEX0009X/9**

4 Equipment or Protective System: **Type XB15 Xenon Beacon**

5 Manufacturer: **Cooper MEDC Limited**

6 Address: **Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield, NG17 5FB**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa04ATEX0009X 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.

Baseefa Customer Reference No. 0676

Project File No. 14/0448

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A handwritten signature in black ink, appearing to read 'R S Sinclair', with a second signature 'M BOWNEY' written below it.

R S SINCLAIR
GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa04ATEX0009X/9

15 Description of the variation to the Equipment or Protective System

Variation 9.1

Clarification of Temperature Classification and ambient operating temperature and marking for the beacon types as detailed in the table below.

Beacon Type	Lamp Rating Power/Energy	*Temperature Class
XB15	30W / 15 Joules	T5/T100°C (T _{amb} -55°C to +40°C)
		T4/T135°C (T _{amb} -55°C to +55°C)
		T4/T135°C (T _{amb} -55°C to +70°C)
	30W / 10 Joules*	T6/T85°C (T _{amb} -55°C to +40°C)
		T5/T100°C (T _{amb} -55°C to +55°C)
		T4/T135°C (T _{amb} -55°C to +70°C)
	30W / 5 Joules*	T6/T85°C (T _{amb} -55°C to +55°C)
		T5/T100°C (T _{amb} -55°C to +70°C)
	FB15	60W or 5W LED Bulb
T3/T200°C (T _{amb} -55°C to +70°C)		
100W		T3/T200°C (T _{amb} -55°C to +40°C)
LD15	13.5W	T6/T85°C (T _{amb} -55°C to +55°C)
		T5/T100°C (T _{amb} -55°C to +70°C)

*Note: the 30W/10 Joule and 30W/5 Joule XB15 rating are available in DC version only.

The equipment marking is:

⊕ II 2 GD Ex d IIC T* Gb Ex tb IIIC T*°C Db (T_{amb} -55°C to + °C) IP6X *See schedule

16 Report Number

SGS Baseefa Report Number: GB/BAS/ExTR15.0187/00

17 Specific Conditions of 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	Sheet	Issue	Date	Description
276-451	1 of 1	B	24/06/2015	XB15 ATEX Certification Label

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: **Baseefa04ATEX0009X/10**

4 Equipment or Protective System: **Type XB15 Xenon Beacon**

5 Manufacturer: **Cooper MEDC Limited**

6 Address: **Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield, NG17 5FB**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa04ATEX0009X 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 60079-0:2012+A11:2013 EN 60079-1:2014 IEC 60079-28:2015 EN 60079-31:2014

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:

For XB15 & FB15:

⊕ II 2 GD Ex db IIC T*Gb
Ex tb IIC T* Db (T_{amb} -55°C to *°C) IP6X *See Schedule

For LD15:

⊕ II 2 GD Ex db op is IIC T*Gb
Ex tb op is IIC T* Db (T_{amb} -55°C to *°C) IP6X *See Schedule

This certificate shall be held with the original certificate.

Baseefa Customer Reference No. **0676**

Project File No. **15/0188**

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R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa04ATEX0009X/10

15

Description of the variation to the Equipment or Protective System

Variation 10.1

Introduction of Version (2) AC electronics together with 5, 10 and 15 Joules xenon tubes to the XB15 Xenon Beacon only.

Beacon Type	Tube Energy	Temperature class / Ambient
XB15	15 Joules	T4/T135°C (Tamb -55°C to +70°C)
		T4/T135°C (Tamb -55°C to +55°C)
		T5/T100°C (Tamb -55°C to +40°C)
	10 Joules	T4/T135°C (Tamb -55°C to +70°C)
		T5/T100°C (Tamb -55°C to +55°C)
		T6/T85°C (Tamb -55°C to +40°C)
	5 Joules	T5/T100°C (Tamb -55°C to +70°C)
		T6/T85°C (Tamb -55°C to +55°C)
		T6/T85°C (Tamb -55°C to +40°C)

Variation 10.2

Introduction of AC electronics to LD15 LED Beacon with rated voltage up to 254V.

Variation 10.3

To confirm that the type XB15 Xenon Beacon covered by this certificate have been reviewed and confirmed as being in compliance with the latest standards as listed above.

Variation 10.4

Introduction of new separate marking for the Type LD15 beacon:

⊕ II 2 GD Ex db op is IIC T*Gb
Ex tb op is IIIC T* Db (T_{amb} -55°C to *°C) IP6X *See Schedule

16 Report Number

SGS Baseefa Report Numbers: GB/BAS/ExTR 15.0192/00 and GB/BAS/ExTR 15.0248/00.

17 Specific Conditions of 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	Sheet	Issue	Date	Description
276-451	1 of 1	C	29/06/2015	XB15 ATEX Certification Label
276-439	1 of 1	C	05/10/2015	FB15 ATEX Certification Label
*379-103	1 of 1	B	30/09/2015	ATEX/IECEx Certification GA LD15 LED Beacon
379-104	1 of 1	C	29/05/2015	LD15 ATEX Certification Label

*This drawing is common to Baseefa04ATEX0009X and IECEx BAS 05.0048X and held with the latter.

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 Supplementary EU - Type Examination Certificate Number: **Baseefa04ATEX0009X/11**

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **Type XB15 Xenon Beacon**

5 Manufacturer: **Eaton MEDC Limited**

6 Address: **Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield, NG17 5FB**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0009X** to apply to products 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 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

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

EN 60079-0:2012+A11:2013 EN 60079-1:2104 EN 60079-28:2015 EN 60079-31:2014

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

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

For FB15:

⊕ II 2 GD Ex db IIC T*Gb
Ex tb IIIC T* Db (T_{amb} -55°C to *°C) IP6X *See Schedule

For XB15

⊕ II 2 GD Ex db op is IIC T*Gb
Ex tb op is IIIC T* Db (T_{amb} -55°C to *°C) IP6X *See Schedule

For LD15:

⊕ II 2 GD Ex db op is IIC T*Gb
Ex tb op is IIIC T* Db (T_{amb} -55°C to *°C) IP6X *See Schedule

SGS Baseefa Customer Reference No. 0676

Project File No. 16/0395

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Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN

PP M'Downey
M'Downey

R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa04ATEX0009X/11**

15 **Description of the variation to the Product**

Variation 11.1

to allow the optional use of an BHN 2647 (G)(H) helical form extended life Xenon tube, in the Type XB15 Xenon Beacon.

Beacon Type	Tube Energy	Temperature class / Ambient
XB15 Fitted with BHN 2647 (G)(H) helical form Xenon tube	15 Joules	T4/T135°C (T _{amb} -55°C to +70°C)
		T4/T135°C (T _{amb} -55°C to +55°C)
		T5/T100°C (T _{amb} -55°C to +40°C)
	10 Joules	T4/T135°C (T _{amb} -55°C to +70°C)
		T5/T100°C (T _{amb} -55°C to +55°C)
		T6/T85°C (T _{amb} -55°C to +40°C)
	5 Joules	T5/T100°C (T _{amb} -55°C to +70°C)
		T6/T85°C (T _{amb} -55°C to +55°C)
		T6/T85°C (T _{amb} -55°C to +40°C)

Variation 11.2

To allow clarification of the operating voltages of the XB15 unit

16 **Report Number**

GB/BAS/ExTR16.0155/00

17 **Specific Conditions of 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
*276-142	J	16/12/16	ATEX / IECEX certification G.A XB15 Xenon beacon FB15 Filament luminaire.
² 276-451	D	27/01/17	XB15 ATEX Certification Label

* This drawing is common to and held with IECEx BAS 05.0048X

² This drawing is held with Baseefa04ATEX0009X

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 Supplementary EU - Type Examination Certificate Number: **Baseefa04ATEX0009X/12**

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016

4 Product: **Type XB15 Xenon Beacon**

5 Manufacturer: **Eaton MEDC Limited**

6 Address: **Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield, NG17 5FB**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0009X** to apply to products 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 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

SGS Baseefa Customer Reference No. **0676**

Project File No. **17/0302**

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SGS Baseefa Limited

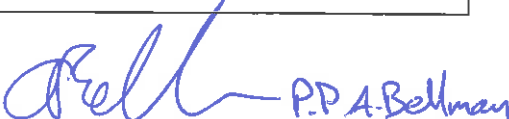
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Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN


P.P.A. Bellman

R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa04ATEX0009X/12**

15 **Description of the variation to the Product**

Variation 12.1

The manufacturer requests a variation to allow the XB15 rated at 230/240V a.c. and having a 15J 'U' shaped Xenon tube and Version 2 P.C.B. and 60, 80 or 120 flash rate to be fitted with an end of line resistor 12K Ω minimum 10W minimum resistor

In this configuration it will be given the type designation XB15R and marked:

Ex db op is IIC T* Gb; Ex tb op is IIIC T*°C Db (Tamb -55°C to + °C) IP6X *See Schedule

16 **Report Number**

GB/BAS/ExTR17.0135/00

17 **Specific Conditions of 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
*276-142	K	18/05/17	ATEX/IECEX CERTIFICATION GA XB15 XENON BEACON FB15 LUMINAIRE
² 276-451	D		XB15 ATEX Certification Label

*This drawing is common to Baseefa04ATEX0009X and held with IECEX BAS 05.0048X.

²This drawing is held with Baseefa04ATEX0009X.

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 Supplementary EU - Type **Baseefa04ATEX0009X/13**
Examination Certificate Number:

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016

4 Product: **Type XB15 Xenon Beacon**

5 Manufacturer: **Eaton MEDC Limited**

6 Address: **Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield,
NG17 5FB,**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0009X** to apply to products 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 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

SGS Baseefa Customer Reference No. **0676**

Project File No. **18/0637**

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R S SINCLAIR
TECHNICAL MANAGER

M POWNEY
Certification
Manager

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa04ATEX0009X/13

15 Description of the variation to the Product

Variation 13.1

To clarify the General product information, Temperature class and ambient temperature range of the equipment

General Product Description

The Type XB15 flameproof housing comprises a cylindrical enclosure, manufactured in glass reinforced polyester by compression moulding, complete with a borosilicate wellglass cemented into the centre of the cover. In addition the wellglass may be protected by an optional guard arrangement fixed to the cover.

The cover is mated to the enclosure base by a threaded joint which is then locked by a M4 x 10mm long steel grub screw.

Up to three M20 or M25 (or NPT equivalent) cable entries are provided in the side wall of the enclosure. Internal earthing facilities are provided alongside the internal component connections.

The XB15 Xenon Beacon may be rated at 24V d.c. 48V d.c. and up to 254V a.c. With a maximum power dissipation of 30 Watts. The XB15 fitted with a helical or 'U' shaped tube may have the alternative type designation SB9.

An alternative XB15 rated at 230/240V a.c. having a 15J 'U' shaped Xenon tube, Version 2 P.C.B. and 60, 80 or 120 flash rate, is fitted with a 12K Ω , 10W minimum end of line resistor. In this configuration it will be given the type designation XB15R.

The XB15 Xenon Beacon may also be used with alternative interior components which are designated the FB15 and LD15, and are further described below:

The Type FB15 Filament Lamp may be rated from 12V d.c. to 254V a.c. with a maximum power dissipation filament lamp of 60W or 100W. The filament lamp may be replaced by a 5W LED bulb.

The Type LD15 LED Beacon may be rated up to 48V d.c. with a maximum power dissipation of 13.5W. In addition the LD15 LED may be manufactured with A.C. Electronics with a rated voltage up to 254V a.c.

For all variants listed above the enclosures may be fitted with a terminal block with up to 12 ways and rated up to 25A

Beacon Type and variation	Lamp Rating Power/Energy	*Temperature Class
XB15 Fitted with Version 1 or 2 electronics (Version 1 electronics available as 15 Joules only)	15 Joules	T5/T100°C (T _{amb} -55°C to +40°C)
		T4/T135°C (T _{amb} -55°C to +55°C)
		T4/T135°C (T _{amb} -55°C to +70°C)
	10 Joules	T6/T85°C (T _{amb} -55°C to +40°C)
		T5/T100°C (T _{amb} -55°C to +55°C)
		T4/T135°C (T _{amb} -55°C to +70°C)
	5 Joules	T6/T85°C (T _{amb} -55°C to +40°C)
		T6/T85°C (T _{amb} -55°C to +55°C)
		T5/T100°C (T _{amb} -55°C to +70°C)
XB15 Fitted with HN 2647 (G)(H) helical form Xenon tube	15 Joules	T5/T100°C (T _{amb} -55°C to +40°C)
		T4/T135°C (T _{amb} -55°C to +55°C)
		T4/T135°C (T _{amb} -55°C to +70°C)
	10 Joules	T6/T85°C (T _{amb} -55°C to +40°C)
		T5/T100°C (T _{amb} -55°C to +55°C)
		T4/T135°C (T _{amb} -55°C to +70°C)
	5 Joules	T6/T85°C (T _{amb} -55°C to +40°C)
		T6/T85°C (T _{amb} -55°C to +55°C)
		T5/T100°C (T _{amb} -55°C to +70°C)

Beacon Type and variation	Lamp Rating Power/Energy	*Temperature Class
XB15R 240V a.c. Fitted with end of line resistor of value 12K Ω 10W minimum. 'U' Shaped Xenon tube Version 2 Electronic P.C.B.	15 Joules, Flash rate 60	T5/T100°C (T _{amb} -55°C to +40°C)
		T4/T135°C (T _{amb} -55°C to +55°C)
		T4/T135°C (T _{amb} -55°C to +70°C)
	15 Joules, Flash rate 80	T5/T100°C (T _{amb} -55°C to +40°C)
		T4/T135°C (T _{amb} -55°C to +55°C)
		T4/T135°C (T _{amb} -55°C to +70°C)
	15 Joules, Flash rate 120	T5/T100°C (T _{amb} -55°C to +40°C)
		T4/T135°C (T _{amb} -55°C to +55°C)
		T4/T135°C (T _{amb} -55°C to +70°C)
FB15	60W or 5W LED Bulb	T4/T135°C (T _{amb} -55°C to +55°C)
	100W	T3/T200°C (T _{amb} -55°C to +70°C)
LD15 Voltage Type d.c.	13.5W	T6/T85°C (T _{amb} -55°C to +55°C)
		T5/T100°C (T _{amb} -55°C to +70°C)
LD15 Voltage Type a.c.	110/254V	T6/T85°C (T _{amb} -55°C to +40°C)
		T6/T85°C (T _{amb} -55°C to +55°C)
		T5/T100°C (T _{amb} -55°C to +70°C)

16 Report Number

SGS Baseefa report number GB/BAS/ExTR 18.0260/00

17 Specific Conditions of 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

There are no changes to any certified drawings



1 **EC - TYPE EXAMINATION CERTIFICATE**

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

3 EC - Type Examination Certificate Number: **Baseefa04ATEX0009X**

4 Equipment or Protective System: **TYPE XB15 XENON BEACON**

5 Manufacturer: **MEDC Limited**

6 Address: **Colliery Road, Pinxton, Nottinghamshire, NG16 6JF**

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

8 Baseefa (2001) Ltd. Notified body number 1180, 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 No. 03(C)0483

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014:1997 + Amendments 1 & 2

EN 50018: 2000 + Amendment 1

EN 50281-1-1: 1998 + Amendment 1

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

10 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.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

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

⊕ II 2 GD EEx d IIC T* (* see schedule)

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

Baseefa (2001) Ltd. Customer Reference No. 0676

Project File No. 03/0483

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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M Powney
R S SINCLAIR
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13

Schedule

14

Certificate Number Baseefa04ATEX0009X

15 Description of Equipment or Protective System

The Type XB15 Xenon Beacon may be rated from 12V dc. to 254V ac. with a maximum power dissipation of 30 watts and comprises a cylindrical enclosure, manufactured in glass reinforced polyester, complete with a borosilicate wellglass cemented into the centre of the cover. The wellglass may be protected by an optional guard arrangement fixed to the cover. The cover is mated to the enclosure base by a threaded joint which is then locked by a M4 x 10mm long steel grub screw.

Up to three M20 or M25 (or NPT equivalent) cable entry's are provided in the side wall of the enclosure. Internal earthing facilities are provided along side the internal component connections.

The interior of the enclosure comprises a printed circuit board (PCB) incorporating a xenon tube and control electronics, mounted on pillars from the base. In addition a terminal block with up to 12 ways and rated up to 25A is mounted in the base of the enclosure.

Variation 0.1

An alternative interior comprising a 60W or 100W filament lamp, mounted a ceramic lamp holder which is raised on pillars from the base, and a terminal block with up to 12 ways and rated up to 25A, mounted in the base of the enclosure.

In this form the unit is re-designated a Type FB15 Beacon.

The above units may have the following temperature class/ambient combinations :-

Beacon Type	Lamp Rating	Temperature Class
XB15	30W	T85°C (T _{amb} = -55°C to +55°C)
		T100°C (T _{amb} = -55°C to +70°C)
FB15	60W	T135°C (T _{amb} = -55°C to +55°C)
		T200°C (T _{amb} = -55°C to +70°C)
	100W	T200°C (T _{amb} = -55°C to +40°C)

16 Report Number

Baseefa Certification Report 03(C)0483

17 Special Conditions for Safe Use

1. Painting and surface finishes, other than those applied by the manufacturer, are not permitted
2. In order to maintain the dust tight integrity of the enclosures (IP6X), the threads of cable entry devices and stopping plugs shall be sealed in accordance with the applicable code of practice for flameproof installation.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Issue	Date	Description
276-142	A	29/04/03	General Arrangement, Type XB15 & FB15 Beacons



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: **Baseefa04ATEX0009X/1**

4 Equipment or Protective System: **Type XB15 Xenon Beacon**

5 Manufacturer: **MEDC Limited**

6 Address: **Colliery Road, Pinxton, Nottinghamshire, NG16 6JF**

7 This supplementary certificate extends EC - Type Examination Certificate No. **Baseefa04ATEX0009X** 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.

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Baseefa Customer Reference No. 0676

Project File No. 05/0245 & 05/0267

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DIRECTOR
On behalf of
Baseefa (2001) Ltd.



13

Schedule

14

Certificate Number Baseefa04ATEX0009X/1

15

Description of the variation to the Equipment or Protective System

Variation 1.1

Replacement of the xenon lamp by an 18W fluorescent lamp and associated control gear to form a Type FL15 Beacon rated up to 48V d.c. or up to 250V a.c.

Variation 1.2

Replacement of the xenon lamp by six banks of 5 LEDs and associated control gear to form a Type LD15 Beacon rated up to 48V d.c. or up to 254V a.c.

The full range of beacons and ratings are listed below.

Beacon Type	Lamp Rating	Temperature Class
XB15	30W	T85°C (T _{amb} = -55°C to +40°C)
		T100°C (T _{amb} = -55°C to +55°C)
		T135°C (T _{amb} = -55°C to +70°C)
FB15	60W	T135°C (T _{amb} = -55°C to +55°C)
	100W	T200°C (T _{amb} = -55°C to +70°C)
FL15	18W	T200°C (T _{amb} = -55°C to +40°C)
		T95°C (T _{amb} = -55°C to +40°C)
		T105°C (T _{amb} = -55°C to +50°C)
LD15	30W	T110°C (T _{amb} = -55°C to +55°C)
		T95°C (T _{amb} = -55°C to +40°C)
		T105°C (T _{amb} = -55°C to +50°C)

16

Report Number

Baseefa Certification Report 05(C)0245

17

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	Sheet	Issue	Date	Description
276-196	1	A	04.04.05	General Arrangement, Type FL15 Beacon
276-222	1	A	13.04.05	General Arrangement, Type LD15 Beacon



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: **Baseefa04ATEX0009X/2**

4 Equipment or Protective System: **Type XB15 Xenon Beacon**

5 Manufacturer: **MEDC Limited**

6 Address: **Colliery Road, Pinxton, Nottinghamshire, NG16 6JF**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0009X** 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.

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Baseefa Customer Reference No. 0676

Project File No. 06/0261 & 06/0354

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DIRECTOR
On behalf of
Baseefa (2001) Ltd.



13

Schedule

14

Certificate Number Baseefa04ATEX0009X/2

15 Description of the variation to the Equipment or Protective System

Variation 2.1

An alternative interior comprising a tungsten halogen lamp with a rotating screen assembly and control electronics, all attached to a mounting plate which is raised on pillars from the base. A terminal block is mounted in the base of the enclosure for the connection of incoming cables.

In this form the unit is re-designated a Type TH15 Beacon and has a maximum internal power dissipation of 40W. This unit may have the following temperature class/ambient combinations:-

Beacon Type	Lamp Rating	Temperature Class
TH15	35W	T85°C (T _{amb} = -55°C to +40°C)
		T100°C (T _{amb} = -55°C to +55°C)
		T115°C (T _{amb} = -55°C to +70°C)

Variation 2.2

An alternative type designation of SB9 for the XB15 unit only.

Variation 2.3

Alternative label detail.

16 Report Number

Baseefa Certification Report GB/BAS/ExTR06.0099/00

17 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
276-142	B	27/04/06	Type XB15 & FB15 Beacons
276-237	A	21/03/06	Type TH15 Rotating Beacon
276-260	A	27/04/06	Alternative Label



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 **See Schedule**
Number:

4 Equipment or protective system: **See Schedule**

5 Manufacturer: **MEDC**

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

7 This supplementary certificate extends the EC - Type Examination Certificates listed in the Schedule to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedules of the said Certificates but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

A copy of this Supplementary Certificate shall be attached to each of the original Certificates.

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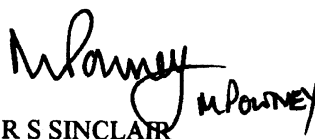
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Project File No. 07/0181

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DIRECTOR
On behalf of
Baseefa (2001) Ltd.



Schedule

Description of the variation to the Equipment or Protective System

To permit the use of epoxy or acrylic paint processes on the products detailed below.

Certificate No.	Supplement No.	Equipment Type
BAS99ATEX2195X	5	XBII
BAS99ATEX2196	5	XB12,FB12,TH12,FL12,
BAS00ATEX2031	2	XB9
BAS00ATEX2097X	9	DB3, DB3L, DB4, DB4L
BAS00ATEX2098X	9	DB3E, DB3E, DB4, DB4E
BAS00ATEX2204X	1	XB10
BAS00ATEX2226X	1	XB10E
BAS02ATEX2086X	5	DB10
BAS02ATEX2105X	4	BGE, PBE
Baseefa03ATEX0084X	2	BG1, PB1
Baseefa04ATEX0009X	3	XB15, FB15, FL15, LD15, TH15
Baseefa04ATEX0166X	2	DB16 IIB
Baseefa04ATEX0167X	2	DB16 IIC
Baseefa05ATEX0198X	1	DB20 IIB
Baseefa05ATEX0199X	1	DB20 IIC

Report No.

None

Special Conditions for Safe Use

None additional to those listed previously

Essential Health and Safety Requirements

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

Drawings and Documents

Number	Issue	Date	Description
122-808	1	05/03/07	Addition of Optional Acrylic Paint to Products Listed.



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: **Baseefa04ATEX0009X/4**

4 Equipment or Protective System: **Type XB15 Xenon Beacon**

5 Manufacturer: **Cooper MEDC Limited**

6 Address: **Colliery Road, Pinxton, Nottinghamshire, NG16 6JF**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0009X** 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.

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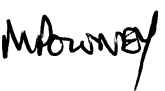
Baseefa Customer Reference No. **0676**

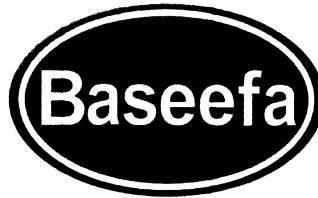
Project File No. **09/0796**

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DIRECTOR
On behalf of
Baseefa




13

Schedule

14

Certificate Number Baseefa04ATEX0009X

15

Description of the variation to the Equipment or Protective System

Variation 1.1

Clarification of the routine overpressure test requirement.

16

Report Number

Baseefa Certification Report GB/BAS/ExTR 09.0179/00

17

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	Sheet	Issue	Date	Description
276-142	1	D	01-10-09	XB15 Xenon Beacon and FB5 Filament Luminaire
276-196	1	B	01-10-09	FL15 Steady Beacon
276-222	1	B	01-10-09	LD 15 Steady Beacon
276-237	1	B	01-10-09	TH15 Rotating Beacon



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: **Baseefa04ATEX0009X/5**

4 Equipment or Protective System: **Type XB15 Xenon Beacon**

5 Manufacturer: **Cooper MEDC Limited**

6 Address: **Colliery Road, Pinxton, Nottinghamshire, NG16 6JF**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0009X** 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.

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



Baseefa Customer Reference No. **0676**

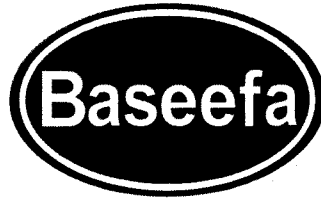
Project File No. **11/0148**

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.

Baseefa

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



R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



13

Schedule

14

Certificate Number Baseefa04ATEX0009X/5

15 **Description of the variation to the Equipment or Protective System**

Variation 5.1

Introduction of an optional LED lamp, rated up to 5W, in place of the current filament lamp.

Variation 5.2

Miscellaneous minor drawing changes, including the removal of an alternative material option.

16 **Report Number**

None

17 **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
276-142	E	18-02-11	General Arrangement - XB15 Xenon beacon & FB15 Filament Luminaire