

## EU - TYPE EXAMINATION CERTIFICATE

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

- EU - Type Examination Certificate    **Baseefa02ATEX0224X – Issue 11**  
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 XB4 Xenon Beacon**
- 5 Manufacturer:                            **Eaton MEDC Limited**
- 6 Address:                                    **Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield, NG17 5FB  
United Kingdom**
- 7 This re-issued certificate extends EC Type Examination Certificate No. **Baseefa02ATEX0224X** to apply to product 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 Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product 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.
- 8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.
- The examination and test results are recorded in confidential Report No. **See certificate history**.
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN IEC 60079-0:2018    EN 60079-1:2014    EN 60079-31:2014**  
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 product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- 11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- 12 The marking of the product shall include the following:

**⊕ II 2 GD Ex db IIC T\* Gb Ta = -55°C to +\*°C**

**Ex tb IIIC T\*°C Db IP6X Ta = -55°C to +\*°C**

SGS Fimko Oy Customer Reference No. **0676**

Project File No. **22/0235**

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## Schedule

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### Certificate Number Baseefa02ATEX0224X – Issue 11

#### 15 Description of Product

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 stainless steel screws of grade A4-80, 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.

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 suitable 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) under an EC-Type Examination Certificate to Directive 2014/34/EU.

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

#### 16 Report Number

See certificate history.

## 17 Specific Conditions of Use

1. The flameproof cable entry device used with the equipment shall be suitable for the entry arrangement and maintain the ingress protection level of IP6X.
2. Potential electrostatic charging hazard – see instructions.

## 18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

## 19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
188-646	1-3	D	21-06-23	XB4/FL4/FB4 ATEX Certification GA
188-647	1	B	28-07-23	ATEX Cert Label EExd XB4/FB4/FL4

Current drawings which remain unaffected by this issue:

None

## 20 Certificate History

Certificate No.	Date	Comments
Baseefa02ATEX0224X	2 December 2003	The release of the prime certificate. The associated test and assessment against the requirements of EN 50014:1997 + Amendments 1 and 2, EN 50018:2000 + Amendment 1 and EN 50019:2000 is documented in Test Report No. 02(C)0259.
Baseefa02ATEX0224X/1	8 July 2004	The optional addition of a series connected resistor and an end of line resistor each rated at 2.5W minimum and 470Ω minimum fitted across the input terminals for the 24V d.c. versions of the beacons. Baseefa certification report 04(CI)0460 refers.

Certificate No.	Date	Comments
Baseefa02ATEX0224X/2	29 July 2005	<p>The optional use of both the EEx d and EEx e versions of the Types XB4, FL4 and FB4 Beacons in a potentially explosive dust atmosphere in accordance with EN 50281-1-1:1998 + Amendment 1.</p> <p>When this option is invoked a D is added to the marking which takes the form <math>\text{Ex II 2 GD IIC}</math></p> <p>In accordance with the marking requirements for both EN50014 and EN50281-1-1 the maximum surface temperature is marked; T85°C, T100°C, T135°C or T200°C as appropriate and detailed on certificate schedule drawing number 188-548.</p> <p>The appropriate ambient temperature range in which each of the EEx d versions of the beacon can operate in a potentially explosive dust atmosphere is as follows;</p> <p><b>Type XB4 Beacon -55°C to +55°C</b></p> <p><b>Type FB4 Beacon -55°C to +55°C</b></p> <p><b>Type FL4 Beacon -20°C to +55°C</b></p> <p>The appropriate ambient temperature range in which each of the EEx de versions of the beacon can operate in a potentially explosive dust atmosphere is as follows;</p> <p><b>Type XB4 Beacon -20°C to +55°C</b></p> <p><b>Type FB4 Beacon -20°C to +55°C</b></p> <p><b>Type FL4 Beacon -20°C to +55°C</b></p> <p>Baseefa certification report 04(C)0529 refers.</p>
Baseefa02ATEX0224X/3	4 January 2006	<p>Alternative terminal arrangement in the Type FB4 Filament Lamp, incorporating up to twelve type SAK2.5 rail mounted terminals. No report.</p>
Baseefa02ATEX0224X/4	1 November 2006	<p>To record the following reports which are respectively reproductions of BASEEFA Internal Certification Reports 97(CI)0581, referenced in Certification Report 05(C)0529 which supported Baseefa02ATEX0224X, and 04(CI)0460 which supported Baseefa02ATEX0224X/1; both made suitable for external issue. Baseefa certification reports 06(C)0680/1 and 06(C)0680/2 refer.</p>

Certificate No.	Date	Comments
Baseefa02ATEX0224X/5	18 December 2007	<p>To allow alternative NPT cable entries. To allow minor drawing amendments. To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN60079-0: 2006 EN60079-1: 2004, EN60079-7: 2007, EN 61241-0: 2006 and EN 61241-1: 2004.</p> <p>The Type XB4 Beacon and the Type FB4 Beacon covered by the above variations may be variously coded</p> <p>⊕ II 2 G Ex d IIC T* (Tamb -55°C to +55C), or</p> <p>⊕ II 2 G Ex de IIC T* (Tamb -50°C to +55°C), or</p> <p>⊕ II 2 GD Ex d IIC Ex tD A21 IP6X T*°C (Tamb -55°C to +55°C), or</p> <p>⊕ II 2 GD Ex de IIC Ex tD A21 IP6X T*°C (Tamb -50°C to +55°C).</p> <p>* see original certificate schedules and certification reports for options.</p> <p>The Type FL4 Beacon covered by the above variations may be variously coded</p> <p>⊕ II 2 G Ex d IIC T* (Tamb -20°C to +55C), or</p> <p>⊕ II 2 G Ex de IIC T* (Tamb -20°C to +55°C), or</p> <p>⊕ II 2 GD Ex d IIC Ex tD A21 IP6X T*°C (Tamb -20°C to +55°C), or</p> <p>⊕ II 2 GD Ex de IIC Ex tD A21 IP6X T*°C (Tamb -20°C to +55°C).</p> <p>* see original certificate schedules and certification reports for options.</p> <p>No report.</p>
Baseefa02ATEX0224X/6	6 February 2008	To allow alternative certification label wording. No report.
Baseefa02ATEX0224X/7	23 April 2009	Alternative design of the well glass retaining device and the associated groove in the cover. No report.
Baseefa02ATEX0224X/8	26 October 2010	To assess the equipment against EN 60079-0:2009, EN 60079-1 and EN 60079-31:2008. SGS Baseefa certification report GB/BAS/ExTR10.0171/00 refers.
Baseefa02ATEX0224X/9	23 January 2014	Addition of an example wiring diagram and specifications for the optional in-line and end of line resistors. The existing ratings of the units are unaffected. SGS Baseefa certification report GB/BAS/ExTR14.0018/00 refers.
Baseefa02ATEX0224X/10	10 April 2018	To allow the XB4 A.C. Units to be fitted with a 250KΩ minimum, 0.6W minimum, end of line resistor which will be designated R2. SGS Baseefa certification report GB/BAS/ExTR17.0330/00 refers.
Baseefa02ATEX0224X Issue 11	14 November 2023	To assess the XB4 Beacon against EN IEC 60079-0:2018, EN 60079-1:2014 and EN 60079-31:2014. SGS Baseefa certification report GB/BAS/ExTR22.0117/00 refers.
For drawings applicable to each issue, see original of that issue.		