IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

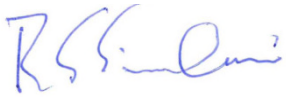
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx BAS 10.0078X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 6	Issue 5 (2018-04-10) Issue 4 (2016-09-29) Issue 3 (2014-01-23) Issue 2 (2013-03-04) Issue 1 (2011-10-28) Issue 0 (2010-10-28)
Date of Issue:	2023-11-15		
Applicant:	**Eaton MEDC Limited** Unit B, Sutton Parkway Oddicroft Lane Sutton-in-Ashfield NG17 5FB **United Kingdom**		
Equipment:	**XB4 Beacon**		
Optional accessory:			
Type of Protection:	**Flameproof and Dust Protected**		
Marking:	**Ex db IIC T* Gb Ta -55°C to + *°C** **Ex tb IIIC T*°C Db Ta -55°C to + *°C IP6X**		

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

Position: **Technical Manager**

Signature: (for printed version)



Date: (for printed version) 15/11/2023

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Certificate issued by:

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

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Certificate No.: **IECEx BAS 10.0078X**

Date of issue: 2023-11-15 Issue No: 6

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

Manufacturing locations: **Eaton MEDC Limited**
Unit B, Sutton Parkway
Oddicroft Lane
Sutton-in-Ashfield
NG17 5FB
United Kingdom

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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 Reports:

GB/BAS/ExTR10.0171/00
GB/BAS/ExTR10.0171/01
GB/BAS/ExTR14.0018/00
GB/BAS/ExTR17.0330/00
GB/BAS/ExTR22.0117/00

Quality Assessment Report:

GB/BAS/QAR06.0023/11

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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.

SPECIFIC CONDITIONS OF USE: 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.
2. The manufacturer should be contacted for guidance on dimensions on flameproof joints.
3. Potential Electrostatic Charging Hazard – See Instructions.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 6.1

To assess the product against the requirements of IEC 60079-0:2018 Edition 7.0, IEC 60079-1:2014 Edition 7.0 and IEC 60079-31:2013 Edition 2.

ExTR: **GB/BAS/ExTR22.0117/00**	File Reference: **22/0235**

Annex:

IECEx BAS 10.0078X Annex.pdf

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United Kingdom

ANNEX to IECEx BAS 10.0078X Issue No. 0 Date: 2010/10/28

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

The enclosure houses various internal arrangements as indicated below.

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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 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