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UNITED KINGDOM CONFORMITY ASSESSMENT

UK TYPE EXAMINATION CERTIFICATE

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Product or Protective System Intended for use in Potentially Explosive Atmospheres
SI 2016:1107 (as amended) – Schedule 3A, Part 1

3 Type Examination Certificate No.: **EMA21UKEX0022X (incorporating variations V1 to V3)**4 Product: **Alarm Sounder and Beacon Range
IS-SB-02-XXXX, IS-B-02-XX, IS-S-02-XX**5 Manufacturer: **Moflash Signalling Limited**6 Address: **11 Upper Conybere Street, Highgate, Birmingham, B12 0EB
United Kingdom**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Element Materials Technology, Approved Body number 0891, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, SI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential report

**TRA-026803-33-00A, TRA-036546-33-00A, TRA-043502-33-00A, TRA-026799-33-00A,
TRA-036546-33-02A, TRA-043502-33-02A, TRA-026802-33-00A, TRA-036546-33-01A,
TRA-043502-33-01A, TRA-054461-33-00A, TRA-064378-33-00A and TRA-067984-33-00A.**

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

EN IEC 60079-0:2018**EN IEC 60079-11:2024**

Except in respect of those requirements listed at section 18 of the schedule.

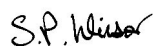
10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall include the following:

 **I M1 Ex ia I Ma -40 °C ≤ Ta ≤ +60 °C** **II 1 G D Ex ia IIC T* Ga -40 °C ≤ Ta ≤ +60 °C****Ex ia IIIC T* C Da****T* See section 15**

This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the Element Materials Technology Ex Certification Scheme.



S P Winsor, Certification Manager

Issue date: 2025-10-08

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CSF341 4.0

13 SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE

14 CERTIFICATE NUMBER EMA21UKEX0022X (incorporating variations V1 to V3)

15 Description of Product

The Moflash IS-SB-02-XXXX, IS-B-02-XX and IS-S-02-XX sounder and beacon are a range of intrinsically safe 'ia' units designed to give visual and / or audible warning signals when activated. The devices either operate as a beacon (IS-B), sounder (IS-S) or combined sounder beacon (IS-SB). The beacon and sounder beacon models contain divergent LEDs to provide a visual warning, the sounder and sounder beacon models contain a transducer to provide an audio warning.

All models are designed for use in hazardous gas environments (Zone 0), dust environments (Zone 20) and mining environments (Group 1 equipment).

Power is supplied by IECEx / ATEX approved barriers only. All enclosures are completely non-metallic and have an IP 66 rating. The enclosure can be of various colours such as red, amber, white or clear. The units are fixed installations.

The optical radiation output of the apparatus with respect to explosion protection is covered in this certificate based on exception 1 to the scope of IEC 60079-28:2015.

IS-SB-02-XXXX, IS-B-02-XX

Ex ia I Ma
Ex ia IIC T5 Ga
Ex ia IIIC T₂₀₀ 85 °C Da

⊕_{Ex} I M1
⊕_{Ex} II 1 G D

-40 °C ≤ Ta ≤ +60 °C

IS-S-02-XX

Ex ia I Ma
Ex ia IIC T6 Ga
Ex ia IIIC T₂₀₀ 85 °C Da

⊕_{Ex} I M1
⊕_{Ex} II 1 G D

-40 °C ≤ Ta ≤ +60 °C

Table of entity parameters

Parameter	Barrier Supply
Ui	28 V
Ii	93 mA
Pi	660 mW
Ci	0 µF
Li	0 µH

SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE

CERTIFICATE NUMBER EMA21UKEX0022X (incorporating variations V1 to V3)

16 Test report No. (associated with this certificate issue): TRA-067984-33-00A.

17 Specific Conditions of Use

1. Clean equipment regularly to prevent dust build-up with a damp or antistatic cloth only.
2. Equipment only suitable for fixed installation.
3. Installation shall be carried out in accordance with the relevant, local code of practice for Ex equipment, e.g. EN & IEC 60079-14, EN 50628 and IEC 60079-25 and that capacitance and inductance limits are not exceeded by distributed capacitance (Cc) or distributed inductance (Lc) due to cable length.



Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.

18 Essential Health and Safety Requirements (Regulations Schedule 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant test reports.

19 Drawings and Documents

The list of controlled technical documentation is given in TRA-067984-00-SDL, dated 2025-10-06.

20 Routine Tests

1. Applied conformal coatings and encapsulation compounds shall be inspected in accordance with the requirements of IEC 60079-11:2023 clause 10.4 and no damage shall be evident.

21 Photographs



Sounder Beacon or Beacon



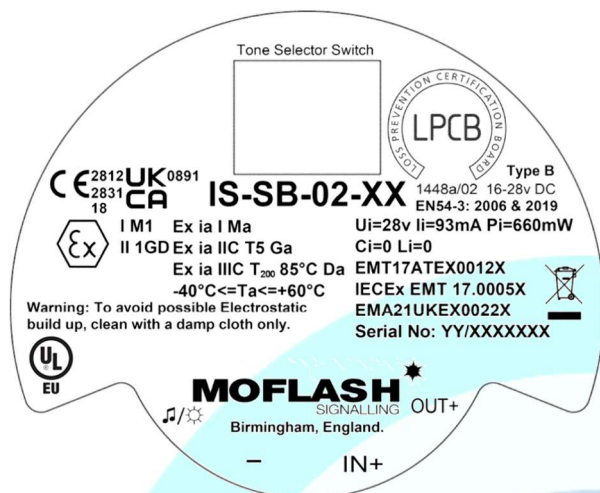
Sounder

SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE

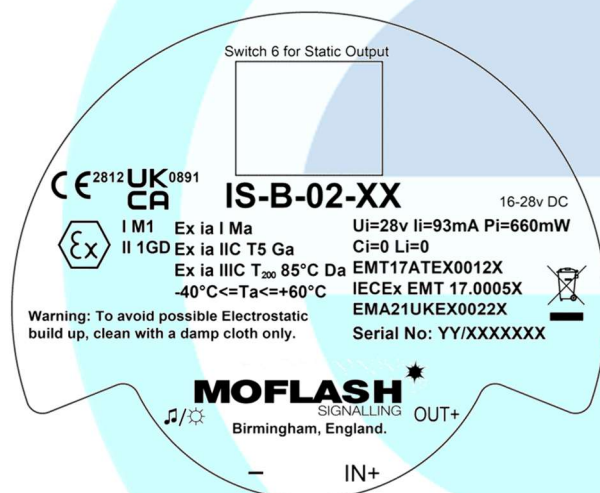
CERTIFICATE NUMBER EMA21UKEX0022X (incorporating variations V1 to V3)

22 Details of Markings

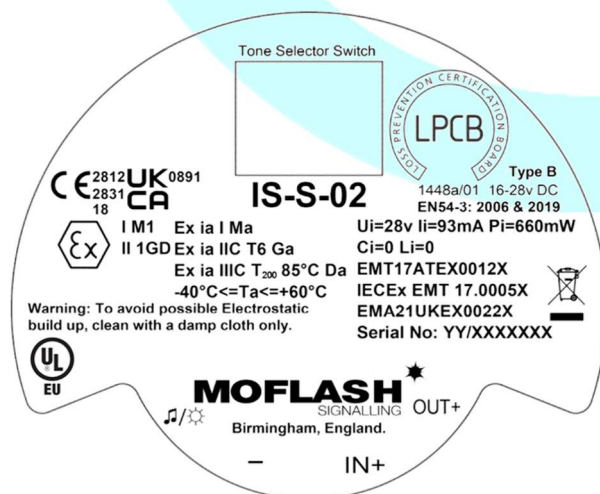
IS-SB-02-XXXX



IS-B-02-XX



IS-S-02-XX



SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE

CERTIFICATE NUMBER EMA21UKEX0022X (incorporating variations V1 to V3)

23 Certificate History

Original certificate	2021-12-20	First issue.
Variation V1	2023-02-13	Administrative variation only.
Variation V2	2025-01-09	Modification to dust temperature coding and ambient range.
Variation V3	2025-10-08	Standard update to IEC 60079-11:2023 (Edition 7.0). Routine inspection introduced on the encapsulation compounds and conformal coatings used.

This certificate is a consolidated certificate and reflects the latest status of the certification, including all variations and amendments.

24 Notes to UKCA marking

In respect of UKCA Marking, Element Materials Technology accepts no responsibility for the compliance of the product against all applicable Regulations in all applications.

25 Notes to this certificate

Element Materials Technology certification reference: TRA-067984-00 (GU-MOFQ-0021).

Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

Approved Body 0891 is the designation for Element Materials Technology Warwick Ltd.

EN IEC 60079-11:2024 falls under Element flexible UKAS scope of accreditation, which assumes temporary accreditation against the reported edition, until formal acceptance by the certification bodies accrediting body 0178 UKAS scope of accreditation. During this intermediate period, Element has applied this procedure and considers itself UKAS accredited for the listed basic reference standard.

26 Conditions for the validity of this certificate

This certificate remains valid for so long as:

- (i) The equipment listed in section 4 is manufactured in accordance with the documents listed in Appendix A of this certificate.
- (ii) The standards listed in section 9 of this certificate continue to satisfy the Essential Health and Safety Requirements of Schedule 1 of the Regulations SI 2016:1107 (as amended by SI 2019:696) and the generally acknowledged state of the art (e.g. as determined by the publishers of those standards).