



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 EMT 17.0005X**

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Certificate history:

Status: **Current**

Issue No: 6

[Issue 5 \(2025-01-09\)](#)

[Issue 4 \(2023-02-13\)](#)

[Issue 3 \(2021-12-17\)](#)

[Issue 2 \(2019-01-18\)](#)

[Issue 1 \(2017-06-23\)](#)

[Issue 0 \(2017-04-19\)](#)

Date of Issue: 2025-10-08

Applicant: **Moflash Signalling Limited**
11 Upper Conybere Street
Highgate
Birmingham
B12 0EB
United Kingdom

Equipment: **Alarm Sounder and Beacon range IS-SB-02-XXXX, IS-B-02-XX, IS-S-02-XX**

Optional accessory:

Type of Protection: **Intrinsic Safety "i"**

Marking:

IS-SB-02-XXXX and IS-B-02-XX only

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

-40 °C ≤ Ta ≤ +60 °C

IS-S-02-XX only

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

-40 °C ≤ Ta ≤ +60 °C

Approved for issue on behalf of the IECEx
Certification Body:

Stephen Winsor

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

Element Materials Technology
Unit 1 Pendle Place
Skelmersdale
West Lancashire
United Kingdom





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Manufacturer: **Moflash Signalling Limited**
11 Upper Conybere Street
Highgate
Birmingham
B12 0EB
United Kingdom

Manufacturing
locations:

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 60079-11:2023](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:7.0

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/EMT/ExTR17.0002/00](#)
[GB/EMT/ExTR17.0003/00](#)
[GB/EMT/ExTR17.0004/00](#)
[GB/EMT/ExTR17.0004/03](#)

[GB/EMT/ExTR17.0002/01](#)
[GB/EMT/ExTR17.0003/01](#)
[GB/EMT/ExTR17.0004/01](#)
[GB/EMT/ExTR17.0004/04](#)

[GB/EMT/ExTR17.0002/02](#)
[GB/EMT/ExTR17.0003/02](#)
[GB/EMT/ExTR17.0004/02](#)
[GB/EMT/ExTR17.0004/05](#)

Quality Assessment Reports:

[GB/EMT/QAR17.0001/00](#)
[GB/EMT/QAR17.0001/03](#)
[GB/EMT/QAR17.0001/06](#)

[GB/EMT/QAR17.0001/01](#)
[GB/EMT/QAR17.0001/04](#)

[GB/EMT/QAR17.0001/02](#)
[GB/EMT/QAR17.0001/05](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Clean equipment regularly to prevent dust build-up with a damp or anti-static 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.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1:

1. Entity parameters changed: Pi of equipment was 571 mW, now increased to 660 mW. Ui increased from 24.8 V to 28 V.
2. Lower ambient temperature range reduced from -20 °C to -40 °C

Issue 2:

Changes to transducer mounting, pcb, marking and instruction update.

Issue 3:

Changes to marking labels and installation manuals to consolidate all equipment models IS-SB-02-XXXX, IS-S-02-XX (IECEx EMT 17.0004X) & IS-B-02-XX (IECEx EMT 17.0003X) onto a single certificate.

Issue 4:

Administrative variation only.

Issue 5:

Standard update to IEC 60079-0:2017 (Edition 7.0). Modification to dust temperature coding and ambient range.

Issue 6:

Standard update to IEC 60079-11:2023 (Edition 7.0). Routine inspection introduced on the encapsulation compounds and conformal coatings used.



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Additional information:

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

2. 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.

Annex:

[Annex to IECEx EMT 17.0005X issue 6.pdf](#)

Annex to IECEx Certificate of Conformity

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Table of entity parameters

Table of maximum entity parameters	
Parameter	Barrier supply
Ui	28 V
Ii	93 mA
Pi	660 mW
Ci	0 μ F
Li	0 μ H