



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 22.0001X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-05-22

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

Equipment: **Intrinsically safe beacon range FD40IS/* and SD40IS/* series**

Optional accessory:

Type of Protection: **Intrinsic Safety "Ex ia"**

Marking: Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
-40 °C ≤ Ta ≤ +55 °C

Approved for issue on behalf of the IECEx
Certification Body:

S P 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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Page 2 of 3

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Manufacturer: **Moflash Signalling Limited**
11 Upper Conybere Street, Highgate
Birmingham
B12 0EB
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Manufacturing
locations: **Moflash Signalling Limited**
11 Upper Conybere Street, Highgate
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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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 6.0

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 Report:

[GB/EMT/ExTR22.0001/00](#)

Quality Assessment Report:

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



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Page 3 of 3

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The equipment is a range of intrinsically safe 'ia' beacons designed to give a visual warning signal when energised by an external source. All units contain circuitry housed within a fully plastic enclosure secured with stainless steel fixing screws and typically mounted to a wall or ceiling.

Both FD40IS* and SD40IS* units utilise an internal PCB, containing an 8-LED array with a choice of colours. FD40IS* units are programmed as a flashing beacon, whereas the SD40IS* units are programmed to be static.

Multiple beacon enclosures are also permitted to be connected adjacent to each other and are each powered by a separate source with the same maximum parameters. Entity parameters may be found in the Annex to this Certificate of Conformity.

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. The enclosure is non-conducting and may generate an ignition-capable level of electrostatic charge under certain extreme conditions. It is the responsibility of the user to ensure that the equipment is installed in a location where it will not be subjected to external conditions that might cause a build-up of electrostatic charge on the surface of the unit.
3. It must be ensured that the equipment is installed in accordance with IEC 60079-14 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.
4. The maximum distributed inductance and capacitance which can be connected to the equipment via cable to be established and confirmed as less than Lo and Co respectively. Where there is non-distributed inductance or capacitance connected to the equipment, the maximum permitted shall not exceed 50 % of Lo and Co.

Annex:

[Annex to CoC IECEx EMT 22.0001X Iss 0.pdf](#)

Annex to IECEx Certificate of Conformity

IECEx EMT 22.0001X issue No.: 0

Table of entity parameters

Table of maximum entity parameters	
Parameter	From barrier supply
Ui	28 V
Ii	93 mA
Pi	660 mW
Ci	0 μ F
Li	0 μ H
Co	0.083 μ F
Lo	4.11 mH

Routine Tests

None

Manufacturer's Documents			
Title:	Drawing No.:	Rev. Level:	Date:
SD40 & FD40 IS General Assembly (2 sheets)	310470	A	2021-12-22
Installation & Technical information FD40IS & SD40IS Beacon Range (12 sheets)	252166	4	2024-03-19
Barrier Warning Label	207366	A	2021-12-08
FD/SD40 IS Label Drawing	FD/SD40 IS Labels	4	2024-03-19
Conformal Coating Application	D7402M	1	2023-07-05
C&S IS Beacon – corrected numbering	WD9541	5	2023-10-09
C&S IS Beacon Components	-	3	2024-03-21
PCB Population Procedure Sheet, C&S IS Beacon R+A	XS1015	3	2024-04-08
PCB Population Procedure Sheet, C&S IS Beacon B/G/W	XS1016	3	2024-04-08

* Denotes information not provided by manufacturer



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