

CONFORMITÉ EUROPÉENNE

EU - TYPE EXAMINATION CERTIFICATE

Product or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU – Annex III

EU - Type Examination Certificate No.: **ERO22ATEX0001X**

Product: **Intrinsically Safe Beacon Range, FD40IS/* and SD40IS/* Series**

Manufacturer: **Moflash Signalling Limited,**

Address: **11 Uppers Conybere Street, Highgate, Birmingham, B12 0EB,
United Kingdom**

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

Element Materials Technology, Notified Body number 2812, 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. The examination and test results are recorded in the confidential report **TRA-054803-33-00A**.

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

EN IEC 60079-0:2018

EN IEC 60079-11:2012

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

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.

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.

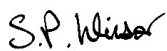
The marking of this product shall include the following:



II 1 G Ex ia IIC T4 Ga -40 °C ≤ Ta ≤ +55 °C

II 1 D Ex ia IIIC T135°C Da -40 °C ≤ Ta ≤ +55 °C

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: 2024-05-22

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13 SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

14 CERTIFICATE NUMBER ERO22ATEX0001X

15 Description of Product

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.

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

16 Test Report No. (as added for this issue of the certificate): TRA-054803-33-00A.

17 Specific Conditions of Use

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.



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 (Directive Annex II)

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 reports.

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19 Drawings and Documents

The list of controlled technical documentation is given in Appendix A to this schedule.

20 Routine Tests

None.

21 Photographs



22 Details of Markings



Clifford & Snell
MOFLASH
www.moflash.com

Intrinsically Safe * Beacon
***D40IS/X/*/*/*RN**

II 1 G Ex ia IIC T4 Ga
II 1 D Ex ia IIIC T135°C Da
-40°C ≤ Ta ≤ 55°C

Ui=28v Ii=93mA Pi=0.66W
Ci=0 Li=0
Co=0.083µF Lo=4.11mH

CE 2812
UK
CA 0891

WARNING **ERO22ATEX0001X** **IECEX EMT 22.0001X** **EMA22UKEX0003X**
To avoid possible Electrostatic build up, clean with a damp cloth only. See document number 252166 for installation instructions Date: MM/YYYY
Serial No: xxxxx

Moflash Signalling Limited, 11 Upper Conybere Street, Highgate, Birmingham, B12 0EB **Made in UK**

23 Certificate History

Original certificate 2024-05-22 First issue.

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

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24 Notes to CE marking

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

25 Notes to this certificate

Element Materials Technology certification reference: ERO041508P31 (GU-MOFQ-0010).

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

Notified Body number 2812 is the designation for Element Materials Technology Rotterdam BV.

27 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 Annex II of Directive 2014/34/EU and the generally acknowledged state of the art (e.g. as determined by the publishers of those standards).

SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE**CERTIFICATE NUMBER ERO22ATEX0001X****APPENDIX A - TECHNICAL 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