1 **CONFORMITÉ EUROPÉENE**

EU - TYPE EXAMINATION CERTIFICATE

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

3	EU - Type Examination Certificate No.:	**ERO22ATEX0002X**
4	Product:	**Intrinsically safe sounder and sounder beacon range YO*/ISC/T* and YL*/ISC/T4/* series**
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, 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-054803-33-01A**.

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

EN IEC 60079-0:2018 **EN 60079-11:2012**

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 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.

12 The marking of this product shall include the following:

Ex II 1 G D

Ex ia IIC T4 Ga **See Section 15**

Ex ia IIIC T_{200} 75…110 ºC Da

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: 2023-05-19

PRODUCTS RvA C 654

Element Materials Technology Rotterdam BV
Zekeringstraat 33, 1014 BV, Amsterdam, Netherlands
Registered in the Netherlands. Registered Office: PO Box 6854, 4802 HW, Breda, Netherlands
Company Reg. No. 24170257

13 SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

14 CERTIFICATE NUMBER ERO22ATEX0002X

15 Description of Product

The equipment is a range of intrinsically safe 'ia' alarms designed to give visual and / or audible warning signals 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.

YO* units are fitted with a transducer to provide an audio warning only. Alarm tones can be adjusted using different combination of five internal DIP switches. There is also the option for YO* units to be fitted with a volume control button. With the exception of the transducer and volume control button, all components in the YO* circuit are contained within an encapsulated PCB assembly. Three different enclosure types are included in the YO* range.

YL* units are YO* units additionally fitted with one or more unencapsulated beacon circuits containing an 8-LED array with a choice of colours. Two main enclosure types are included in the YL* range. YL4 units have the transducer, sounder circuit and beacons all housed within separate adjacent enclosures in a row such that the beacon is aligned with the sounder. Multiple beacon enclosures are also permitted to be connected adjacent to each other on the YL4 units and are each powered by a separate source with the same maximum parameters. YL5 units have both transducer and sounder circuit housed within a single larger enclosure, attached to an adjacent beacon circuit enclosure either aligned with or perpendicular to the sounder.

Ex Coding	Model	Tamb
Ⓔx II 1 G D Ex ia IIC T4 Ga Ex ia IIIC T_{200} 110 ºC Da	YO*/ISC/T4	-25 ºC to +40 ºC
Ⓔx II 1 G D Ex ia IIC T6 Ga Ex ia IIIC T_{200} 75 ºC Da	YO*/ISC/T6	
Ⓔx II 1 G D Ex ia IIC T4 Ga Ex ia IIIC T_{200} 110 ºC Da	YL*/ISC/T4/*	

Entity parameters
YO*/ISC/T* units:
Ui = 30 V, Ii = 133 mA, Pi = 0.7 W, Ci = 0, Li = 0

YL*/ISC/T4/* units:
EITHER
Beacon circuit terminals (connected to their own supply):
Ui = 30 V, Ii = 200 mA, Pi = 0.7 W, Ci = 0, Li = 0
Sounder circuit terminals (connected to their own supply):
Ui = 30 V, Ii = 133 mA, Pi = 0.7 W, Ci = 0, Li = 0

OR
Beacon and sounder circuits sharing one supply:
Ui = 30 V, Ii = 133 mA, Pi = 0.7 W, Ci = 0, Li = 0

16 Test Report No. (as added for this issue of the certificate): TRA-054803-33-01A

17 Specific Conditions of Use

1. The apparatus has a plastic enclosure which constitutes a potential electrostatic hazard. The enclosure must be cleaned only with a damp cloth.

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.

19 Drawings and Documents

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

20 Routine Tests

None.

21 Specific Conditions for Manufacture

None.

22 Photographs

YO3 Sounder Enclosure

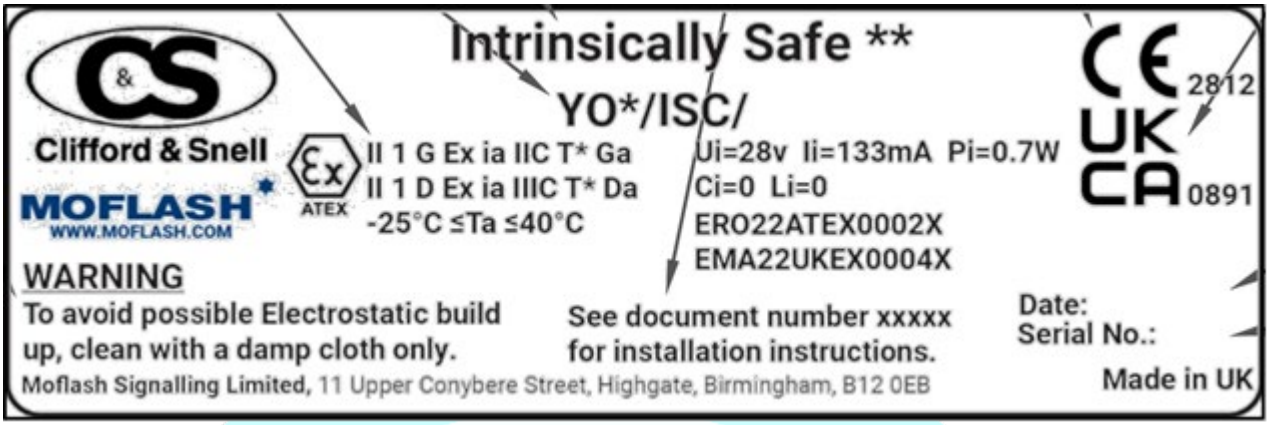
YO4 Sounder Enclosure

YL4 Sounder Beacon Enclosure (single beacon circuit)

YL5 Sounder Beacon Enclosure, (YO5 Sounder Enclosure when beacon is removed)

Note – YL5/ISC/T4//HV/RF is identical but has beacon aligned with sounder*

23 Details of Markings



Product Code	Product Type	Parameters
YL4/ISC/T4/*/*/RN	Intrinsically Safe Sounder Beacon	EX II 1 G Ex ia IIC T4 Ga. II 1 D Ex ia IIIC T_{200} 110°C Da
YL4/ISC/T4/*/RN	Intrinsically Safe Sounder Beacon	EX II 1 G Ex ia IIC T4 Ga. II 1 D Ex ia IIIC T_{200} 110°C Da
YL5/ISC/T4/*/RF	Intrinsically Safe Sounder Beacon	EX II 1 G Ex ia IIC T4 Ga. II 1 D Ex ia IIIC T_{200} 110°C Da
YL5/ISC/T4/*/HV/RF	Intrinsically Safe Sounder Beacon	EX II 1 G Ex ia IIC T4 Ga. II 1 D Ex ia IIIC T_{200} 110°C Da
YO3/ISC/T4	Intrinsically Safe Sounder	EX II 1 G Ex ia IIC T4 Ga. II 1 D Ex ia IIIC T_{200} 110°C Da
YO3/ISC/T6	Intrinsically Safe Sounder	EX II 1 G Ex ia IIC T6 Ga. II 1 D Ex ia IIIC T_{200} 75°C Da
YO4/ISC/T4	Intrinsically Safe Sounder	EX II 1 G Ex ia IIC T4 Ga. II 1 D Ex ia IIIC T_{200} 110°C Da
YO4/ISC/T6	Intrinsically Safe Sounder	EX II 1 G Ex ia IIC T6 Ga. II 1 D Ex ia IIIC T_{200} 75°C Da
YO5/ISC/T4	Intrinsically Safe Sounder	EX II 1 G Ex ia IIC T4 Ga. II 1 D Ex ia IIIC T_{200} 110°C Da
YO5/ISC/T6	Intrinsically Safe Sounder	EX II 1 G Ex ia IIC T6 Ga. II 1 D Ex ia IIIC T_{200} 75°C Da

24 Certificate History

Original certificate 2023-05-19 First issue.

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

25 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.

26 Notes to this certificate

Element Materials Technology certification reference: ERO038397P62 (GU-MOFQ-0011).

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 ERO22ATEX0002X

APPENDIX A - TECHNICAL DOCUMENTS

Title:	Drawing No.:	Rev. Level:	Date:
YO/YL IS Label drawing	-	1	2022-02-09
C&S IS Potted PCB Assembly Labels	207363	1	2022-10-05
Barrier Warning Label	207366	A	2021-12-08
IS Transducer type 4T-80-A-D (7 sheets)	207371	1	2020-09-10
YO3 IS PCB Potting Assembly	D7280-A	4	2022-10-05
YO4 IS PCB Potting Assembly	D7280-B	4	2022-10-05
YO5 IS PCB Potting Assembly	D7280-C	4	2022-10-05
Yodalarm YO30 IS General Assembly (2 sheets)	310351	1	2022-10-05
YO4 IS General Assembly (2 sheets)	310451	1	2022-10-05
Yodalarm – YO5 IS General Assembly (2 sheets)	310551	1	2022-10-05
ISC/ISD PCB Info	D7284	7	2022-10-05
C&S IS T6 Sounder PCB	205400	1	2022-04-26
C&S IS T4 Sounder PCB	205832	1	2022-04-26
C&S IS Sounder PCB SMT Sub-Assy	XS1014	1	2022-04-26
Circuit Diagram of an Intrinsically Safe Alarm Module	WD 9536/A	1	2002/08/28
Circuit Diagram of an Intrinsically Safe Alarm Module	WD 9536/C	1	2002/08/28
Installation & Technical Information, YO3 Sounder Range (12 sheets)	252151	1	2022-04-06
Installation & Technical Information, YO4 Sounder Range (12 sheets)	252154	1	2022-04-06
Installation & Technical Information, YO5 Sounder Range (12 sheets)	252157	1	2022-04-06
YL4 IS General Assembly (2 sheets)	310450	1	2022-10-05
YL4 IS AV General Assembly (2 sheets)	310460	1	2022-10-05
Installation & Technical Information, YL40 Sounder Beacon Range (12 sheets)	252160	1	2022-04-06
Yodalight – YL50 IS General Assembly (2 sheets)	310550	1	2022-10-05
Yodalight – YL5 IS Hi Vis General Assembly (2 sheets)	310552	A	2023-02-05
Installation & Technical Information, YL50 Sounder Beacon Range (12 sheets)	252163	1	2022-04-06
Installation & Technical Information, YL50 HiVis Sounder Beacon Range (12 sheets)	252164	1	2023-02-17
Intrinsically Safe Beacons PCB D40 Vdc I.S.	D7402	7	2014-09-10
PCB Assy D40 Vdc I.S.	WD9541	4	2013-10-07