

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.: **ERO20ATEX0020X (incorporating variation V1)**

Product: **Alarm Sounder and Beacon Range
Ex IS Sounder, Ex IS Beacon, Ex IS Sounder/Beacon
TCCA0000, TCCA0010, TCCA0020**

Manufacturer: **Texecom Limited (incorporating Klaxon Signals)**

Address: **Bradwood Court, St Crispin Way, Haslingden, Rossendale, Lancashire,
BB4 4PW, 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-060191-32-00A**.

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.

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:

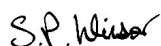
 **I M1 Ex ia I Ma -40 °C ≤ Ta ≤ +55 °C**

 **II 1 G D Ex ia IIC T* Ga -40 °C ≤ Ta ≤ +55 °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: 2024-06-20

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13 SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

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15 Description of Product

The Texecom Ex IS Sounder, Ex IS Beacon and Ex IS 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 (TCCA0010), sounder (TCCA0000) or combined sounder beacon (TCCA0020). 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.

Ex Marking	
<u>Beacon or Souder/ Beacon</u> <u>TCCA0010 or TCCA0020</u>	<u>Sounder</u> <u>TCCA0000</u>
 I M1	 I M1
 II 1 G D	 II 1 G D
Ex ia I Ma	Ex ia I Ma
Ex ia IIC T5 Ga	Ex ia IIC T6 Ga
Ex ia IIIC T100 °C Da	Ex ia IIIC T85 °C Da
-40 °C ≤ Ta ≤ +55 °C	-40 °C ≤ Ta ≤ +55 °C

SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE**CERTIFICATE NUMBER ERO20ATEX0020X (incorporating variation V1)****Model designation.**

Description	Texecom Part Code	Texecom Approval Type
Ex IS Sounder 24vDc Red	TCC-0001	TCCA0000
Ex IS Beacon 24vDc Amber Lens	TCC-0002	TCCA0010
Ex IS Beacon 24vDc Red Lens	TCC-0003	TCCA0010
Ex IS Beacon 24vDc Blue with Clear Lens	TCC-0004	TCCA0010
Ex IS Beacon 24vDc Green with Clear Lens	TCC-0005	TCCA0010
Ex IS Beacon 24vDc White with Clear Lens	TCC-0006	TCCA0010
Ex IS Sounder/Beacon 24vDc with Amber Lens	TCC-0007	TCCA0020
Ex IS Sounder/Beacon 24vDc Red Lens	TCC-0008	TCCA0020
Ex IS Sounder/Beacon 24vDc Blue with Clear Lens	TCC-0009	TCCA0020
Ex IS Sounder/Beacon 24vDc Green with Clear Lens	TCC-0010	TCCA0020
Ex IS Sounder/Beacon 24vDc White with Clear Lens	TCC-0011	TCCA0020

Table of entity parameters	
Parameter	Barrier supply
Ui	28 V
Ii	93 mA
Pi	600 mW
Li	0
Ci	0

16 Test Report No. (as added for this issue of the certificate): None.**17 Specific Conditions of Use**

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. It must be ensured that the equipment is installed in accordance with IEC 60079-14 and IEC 60079-25 and that the capacitance and inductance limits are not exceed by distributed capacitance (C_c) or distributed inductance (L_c) due to cable length.



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

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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.

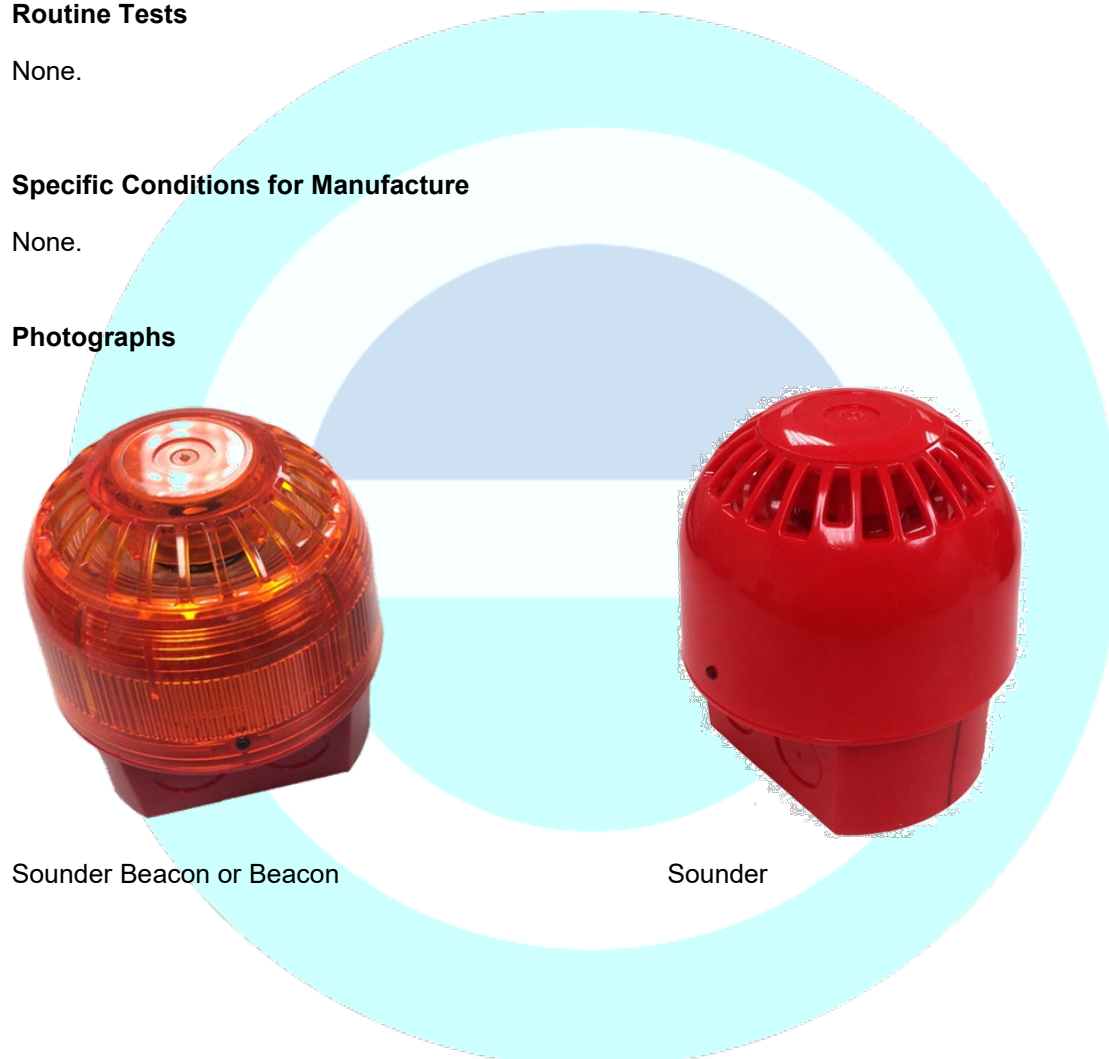
20 Routine Tests

None.

21 Specific Conditions for Manufacture

None.

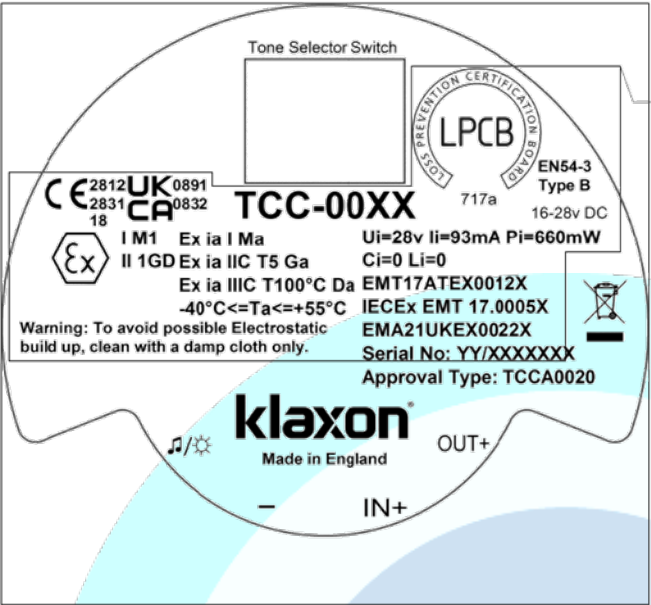
22 Photographs



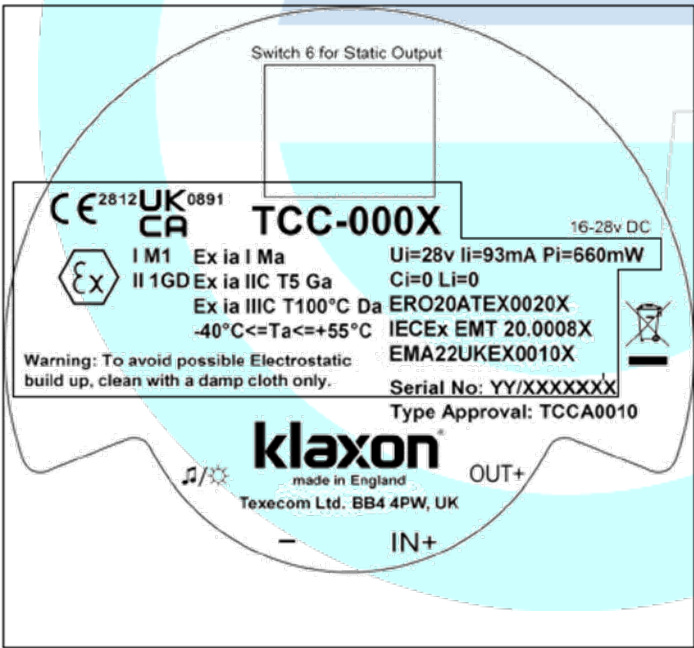
Sounder Beacon or Beacon

Sounder

23 Details of Markings

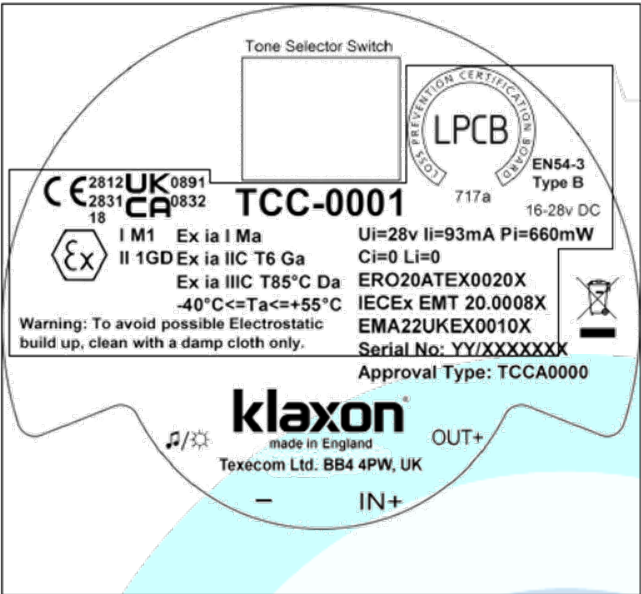


TCCA0020 Sounder/Beacon



TCCA0010 Beacon

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TCCA000 Sounder

24 Certificate History

Original certificate	2023-02-10	First issue.
Variation V1	2024-06-20	Administrative correction to typographical errors in drawing list.

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: ERO041508P38 (GU-TEXQ-0007).
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

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APPENDIX A - TECHNICAL DOCUMENTS			
Title:	Drawing No.:	Rev. Level:	Date:
Drawings common to all models:			
Sounder and Sounder Beacon General Assembly (2 sheets – Page 1)	IS-GA001	6	2018-12-17
Circuit Board Potting	XS0200-xxP	3	2017-02-27
Conformal Coating Application	XS0200-xxPC	4	2018-12-05
Critical Spacing	E00607	8	2018-12-05
Intrinsically Safe Potting Jig	M00131	A	2017-01-12
IS O Ring	M00133	1	2017-03-06
Intrinsically Safe Circuit Sounder Beacon	MOF152	9	2018-11-29
Intrinsically Safe Project – BOM	MOF152BOM	9	2018-12-17
92 x 1.8 O-Ring NBR70	18-185852	01	2013-04-16
Wiper Contact	18-185906	01	2013-02-06
Sonos Hole Bung	18-185907	01	2012-11-15
Sonos PCB Holder with Cutout (3 sheets)	18-185959	03	2015-10-19
Sonos Red Deep Base MkII 4 Pin	HSG6890	01	2015-10-23
Drawings specific to TCCA0020 and TCCA0000:			
Transducer to Cavity Gasket	M00130	2	2017-02-27
IS Inner Cavity to Cover Gasket	M00132	1	2017-03-06
Intrinsically Safe Transducer Holder	M00134	A	2018-02-21
Transducer	M00427	4	2017-02-27
Sonos Outer Cover (2 sheets)	18-185802	03	2014-11-19
Sonos Inner Cavity	18-185983	02B	2014-04-16
Drawings specific to Sounder Beacon only TCCA0020:			
Sounder Beacon Product Label	S00153KL	3	2022-12-19
Intrinsically Safe Sounder-Beacon Range Installation Booklet (12 pages)	S00605KL	10	2023-01-16
Drawings specific to Sounder TCCA0000 only:			
Sounder Product Label	S00151KL	3	2022-12-19
Intrinsically Safe Sounder Range Installation Booklet (12 pages)	S00608KL	10	2023-01-16
Drawings specific to Beacon only TCCA0010:			
Beacon Product Label	S00155KL	2	2022-12-19
Intrinsically Safe Sounder Range Installation Booklet (12 pages)	S00609KL	8	2023-01-16