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CONFORMITÉ EUROPÉENNE

EU - TYPE EXAMINATION CERTIFICATE2 **Product or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU – Annex III**3 EU - Type Examination Certificate No.: **TRAC14ATEX0047X (incorporating variation V1)**4 Product: **Junction Box Enclosure, 4290**5 Manufacturer: **LCM Systems Limited,**6 Address: **Unit 15, Newport Business Park, Barry Way, Newport, Isle of Wight,
PO30 5GY, 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-023079-33-00A**.

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

EN 60079-0:2012**EN 60079-7:2007****EN 60079-31:2009**

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

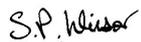
10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.

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:

 **II 2 G Ex d IIC T6 Gb****II 2 D Ex tb IIIC T85°C Db IP6x Tamb -20 °C to +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: 2020-11-20

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13 SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

14 CERTIFICATE NUMBER TRAC14ATEX0023X (incorporating variation V1)

15 Description of Product

The 4290 flameproof enclosure protection level EPL Gb and dust ignition protected EPL Db is cylindrical in construction from either 304 or 316 stainless steel or stronger grade dependent upon the application and varies in both internal and external dimensions dependent upon the application but has an internal volume ranging between 5 and 500cm³. The enclosure is used either as a junction box or to house signal conditioning circuitry. The enclosure consists of two main parts, the enclosure body and the lid which forms a cylindrical flamepath with the body and is secured by four M6 x 16 cap head screws. The sides of the enclosure are machined flat at 0°, 90°, 180° and 270° and are Mxx threaded to allow the fitment of a suitably ATEX certified bulkhead connector or a cable and cable entry supplied with the equipment.

Electrical Rating 0-27Vdc.

A list of controlled Manufacturer's Documents is given in Appendix A to this schedule

16 Test Report No. (as added for this issue of the certificate): None.

17 Specific Conditions of Use

1. No modifications shall be made to the flamepaths of the equipment without consultation with the manufacturer.



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

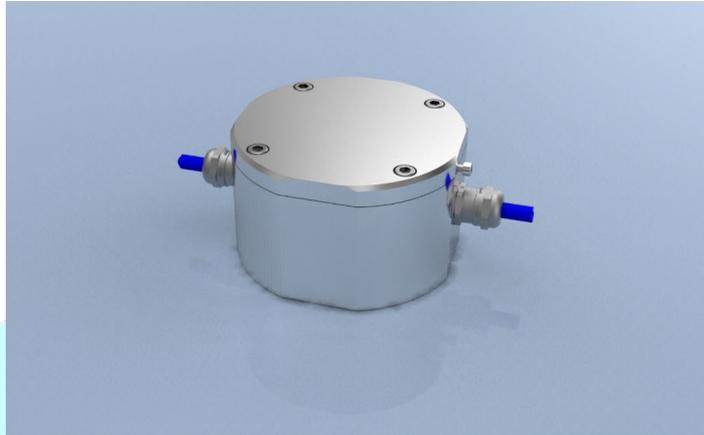
1. All equipment must be supplied either with suitable ATEX certified bulkhead connectors or cables and cable entry devices fitted.

SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

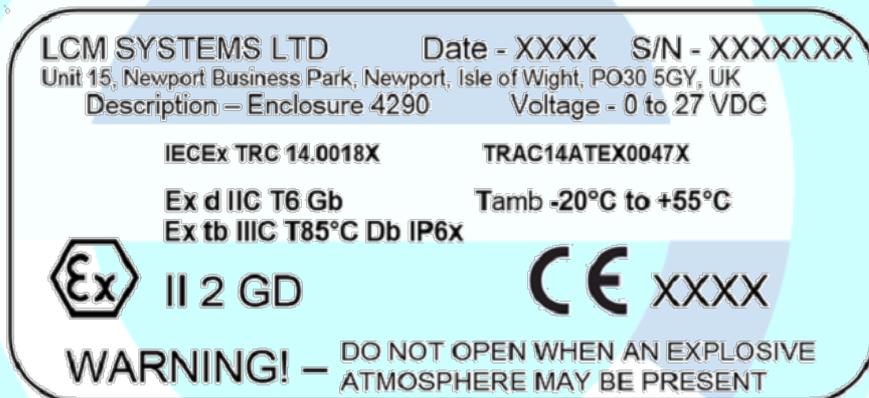
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22 Photographs

4290 Enclosure



23 Details of Markings



24 Certificate History

Original certificate	2014-10-03	First issue.
Variation V1	2020-11-20	This certificate was originally issued by Notified Body number 0891 under Directive 2014/34/EU. The technical file has been transferred to Element Notified Body number 2812 without further assessment or evaluation.

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.

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26 Notes to this certificate

Element Materials Technology certification reference: ERO041508P27 (NR-LCMQ-0002).

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.

In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variation certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

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:
Ex d Enclosure	LCM 4290	A	2014-08-01
ATEX & IECEX Label	4290/8	A	2014-07-30
Instruction Manual (5 sheets)	QMS REC 6	01	2014-07-24

