



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx TRC 14.0018X

Issue No: 1

Certificate history:

Issue No. 1 (2017-11-16)

Issue No. 0 (2014-10-03)

Status: **Current**

Page 1 of 4

Date of Issue: **2017-11-16**

Applicant: **LCM Systems Ltd.,**  
Unit 15, Newport Business Park,  
Barry Way,  
Newport,  
Isle of Wight,  
PO30 5GY  
**United Kingdom**

Equipment: **Junction box Enclosure, 4290**

*Optional accessory:*

Type of Protection: **Flameproof, Enclosure**

Marking:

Ex d IIC T6 Gb

Ex tb III C T85°C Db IP6x

T<sub>amb</sub> -20°C to +55°C

*Approved for issue on behalf of the IECEx  
Certification Body:*

Stephen Winsor

*Position:*

Certification Manager

*Signature:  
(for printed version)*

*Date:*

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Element Materials Technology**  
Unit 1 Pendle Place  
Skelmersdale  
West Lancashire  
WN8 9PN





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Certificate No: IECEX TRC 14.0018X Issue No: 1

Date of Issue: **2017-11-16** Page 2 of 4

Manufacturer: **LCM Systems Ltd.,**  
Unit 15, Newport Business Park,  
Barry Way,  
Newport,  
Isle of Wight,  
PO30 5GY  
**United Kingdom**

Additional Manufacturing location(s):

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 electrical apparatus 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*This Certificate **does not** indicate compliance with electrical 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/TRC/ExTR14.0011/00](#)

Quality Assessment Report:

[GB/SIR/QAR15.0012/02](#)



# IECEX Certificate of Conformity

Certificate No: IECEx TRC 14.0018X

Issue No: 1

Date of Issue: 2017-11-16

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

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 500cm<sup>3</sup>. 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 IECEx certified bulkhead connector or a cable and cable entry supplied with the equipment.

Electrical Rating 0-27Vdc.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

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



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Certificate No: IECEx TRC 14.0018X

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Page 4 of 4

**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Issue 1:

This certificate has been issued to show that the ExCB responsible for the QAR has now been changed.

**Annex:**

[Annex to CoC IECEx TRC 14.0018X is 1.pdf](#)