

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU

3 EU - Type Examination Certificate Number: **Baseefa16ATEX0086X**

4 Product: **Type 238 Wellglass LED fitting**

5 Manufacturer: **Chalmit Lighting**

6 Address: **388 Hillington Road, Glasgow, G52 4BL**

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

8 SGS Baseefa, Notified Body number 1180, 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 confidential Report No. **GB/BAS/ExTR16.0045/00**

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

EN 60079-0: 2012+A11 2013, EN 60079-1: 2014, EN 60079-7: 2015, EN 60079-28: 2015, EN 60079-31: 2014

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the 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 the product shall include the following :

Marking for Type 238 LED

⊕ II 2 GD Ex db eb op is IIB T5 Gb -40°C ≤ Ta ≤ +55°C
Ex op is tb IIIC T100°C Db IP6X

Optional marking for Type 238 LED SRG

⊕ II 2 GD Ex db eb op is IIB T5 Gb -40°C ≤ Ta ≤ +50°C
Ex op is tb IIIC T100°C Db IP6X

SGS Baseefa Customer Reference No. **0068**

Project File No. **15/0949**

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R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

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Certificate Number Baseefa16ATEX0086X

15 Description of Product

The Type 238 Wellglass L.E.D. Luminaire is for use in areas containing either IIB gasses or IIIC dust, it has a temperature class of T5 and is for use in a ambient temperature ranging from -40°C to + 55°C. In addition

the equipment may be fitted with an optional surge protector, and in this configuration the equipment will be designated 238 SRG and the ambient temperature range reduced to -40°C to +50°C, due to the temperature limitations of this component.

The Type 238 Wellglass LED luminaire comprises a circular body and cover manufactured from marine grade aluminium alloy, which may be provided with an optional PTFE coating. The flameproof cover is manufactured with a wellglass sealed in place to form a cemented joint. The cover is secured to the body using 6-off M10 x 35 Cap screws creating a flanged flamepath. The body has an integral increased safety terminal box, which may be fitted with up to 2 line bushings which provide interconnection between the increased safety terminal chamber and the flameproof enclosure. The circular body also provides both Internal and external earth facilities.

The luminaire shall be fitted with 5 Nichia COB LED arrays which are supplied from a 75W 350mA LED driver having a input voltage of 110-254Vac output voltage of 107 – 214Vdc

The enclosure is fitted with a label advising “Do not open when an explosive atmosphere is present” and “Do not open when energised”.

16 Report Number

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17 Specific Conditions of Use

- 1) All terminal screws, used and unused, shall be tightened down to between 1.2 Nm and 2Nm.
- 2) Leads connected to the terminals shall be insulated for the appropriate voltage and the insulation shall extend to within 1 mm of the metal terminal throat.
- 3) The terminals are designed for 1 conductor per terminal throat

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
H029533	1	0	23/04/2014	Terminal box cover gasket
H030446	1	0	01/05/2014	238 Gasket front cover
H033461	3	0	16/06/2016	238 LED Cert details
H036319	1	0	14/06/2016	238 LED Glazing data

These drawings are common to Baseefa16ATEX0086X and held IECEx BAS 16.0019X.