



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:	<b>IECEX ITS 09.0022X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 5	Issue 4 (2018-05-08)
Date of Issue:	2020-11-12		Issue 3 (2017-12-19)
Applicant:	<b>Daniamant Ltd</b> Unit 3, The Admiral Park Airport Service Road Portsmouth PO3 5RQ <b>United Kingdom</b>		Issue 2 (2015-12-10)
Equipment:	<b>Lifebuoy Light L161 &amp; L163</b>		Issue 1 (2010-06-10)
Optional accessory:			Issue 0 (2009-09-09)
Type of Protection:	<b>Intrinsic Safety</b>		
Marking:	Ex ia IIC T4/T3 Ga IECEX ITS 09.0022X T3: -35°C < Ta < +85°C T4: -35°C < Ta < +60°C		

Approved for issue on behalf of the IECEx  
Certification Body:

**A M Smart**

Position:

**Certification Officer**

Signature:  
(for printed version)

**2020-11-12**

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Intertek Testing & Certification Limited**  
**ITS House, Cleeve Road**  
**Leatherhead**  
**Surrey, KT22 7SA**  
**United Kingdom**

**intertek**



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Manufacturer: **Daniamant Ltd**  
Unit 3, The Admiral Park  
Airport Service Road  
Portsmouth  
PO3 5RQ  
**United Kingdom**

Additional  
manufacturing  
locations:

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 equipment 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

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

This Certificate **does not** indicate compliance with 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 Reports:

[GB/ITS/ExTR09.0026/00](#)  
[GB/ITS/ExTR09.0026/03](#)

[GB/ITS/ExTR09.0026/01](#)  
[GB/ITS/ExTR09.0026/04](#)

[GB/ITS/ExTR09.0026/02](#)  
[GB/ITS/ExTR10.0036/00](#)

Quality Assessment Report:

[GB/ITS/QAR08.0007/05](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Type L161 and L163 Lifebuoy Light is a high intensity flashing LED light source designed to float on water.

The units comprise a Noryl buoyancy chamber (either yellow or orange according to model number), printed circuit board with batteries and a LED fitted behind a sealed transparent dome shaped lens.

The enclosure houses two series connected lithium cells as power source. The unit is operated by a magnetic tag which is moved to the operating position when the life buoy light is detached from its retaining bracket.

The electronics within the housing is encapsulated in polyurethane resin.

Intrinsic safety is maintained by the limitation of current, power, inductance and capacitance and the use of specified batteries.

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

The Lifebuoy Lights are housed within plastic enclosures, and may be susceptible to electrostatic charging. When mounted in Zone 0, precautions shall be taken to ensure that electrostatic charging cannot occur.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1:

- Typographic errors corrected in drawings without changes to content of the drawings.

Issue 2:

- Re-assessments of the Life Buoy Light to the requirements of the latest standards IEC 60079-0: 2011 and IEC 60079-11:2011
- Changes to appropriate documents to reflect the above change.

Issue 3:

- Design of the battery to be used with L163 Lifebuoy light changed.

Issue 4:

- Update to certified drawings list to correct label drawing revision and date error introduced under GB/ITS/ExTR09.0026/01.
- Inclusion of additional options for R2

Issue 5:

- Additional Temperature Class T4 with revised ambient temperature.
- Update to latest version of standards.
- Minor correction to permitted cell types

## Annex:

[IECEx ITS 09.0022X Issue 5 Annex.pdf](#)



## Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ITS 09.0022X	Issue No. 5
Annex No. 1		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
L161 LIFE BUOY LIGHT (ATEX)	62-002A	4	10/12/2009
L163 LIFE BUOY LIGHT USCG + ATEX	62-004A	5	10/12/2009
L161-L163 MAIN PCB	62-117D	1	13/05/2009
L161-L163 PCB ARTWORK	62-117N	1	18/06/2009
L161 PCB PARTS LIST	62-118L	4	30/04/2018
L161 SCHEMATIC	62-118C	2	15/12/2009
L161 PCB ASSEMBLY	62-118D	2	15/12/2009
L163 SCHEMATIC	62-120C	3	15/12/2009
L163 PCB ASSEMBLY	62-120D	3	15/12/2009
L163 PCB PARTS LIST	62-120L	4	30/04/2018
*L161 LABEL	62-124D	13	12/10/2020
*L163 LABEL	62-126D	13	12/10/2020

*Note: An \* is included before the title of documents that are new or revised.*