



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

Certificate No.: IECEx ITS 09.0022X

Issue No: 4

Certificate history:

Issue No. 4 (2018-05-08)

Issue No. 3 (2017-12-19)

Issue No. 2 (2015-12-10)

Issue No. 1 (2010-06-10)

Issue No. 0 (2009-09-09)

Status: **Current**

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Date of Issue: **2018-05-08**

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

Equipment: **Lifebuoy Light L161 & L163**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking:

Ex ia IIC T3 Ga
Daniamant Ltd
IECEX ITS 09.0022X
-35°C < Ta < +85°C

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

A M Smart

Position:

Certification Officer

*Signature:
(for printed version)*

Date:

2018-05-08

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:

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





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

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements

Edition:6.0

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

Edition:6.0

*This Certificate **does not** indicate compliance with 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/ITS/ExTR09.0026/00](#)

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

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

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

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

Quality Assessment Report:

[GB/ITS/QAR08.0007/03](#)



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Schedule

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):

Variation One:

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

Variation Two:

Intertek Ref G102157894 dated November 2015

Re-assessments of the Lifebuoy 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.

Variation Three:

Intertek Ref G103001678 dated December 2017

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

Variation Four:

Intertek Ref G103493269 dated April 2018

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

Annex:

[Annex - Cert.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ITS 09.0022X	Issue No. 4
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	8	26/01/2018
*L163 LABEL	62-126D	8	26/01/2018