

AQLBLTX

AQUA SPEC

ATEX Lifebuoy Light

The AQLBLTX Lifebuoy Light is ATEX & IECEx certified, which means it is intrinsically safe for hazardous marine activity applications.

It can be installed on lifebuoys in hazardous atmosphere zones 0,1 & 2. Also with T4 Temperature Class rating, it can be used in hazardous atmospheres with gas auto ignition temperatures ≥ 135 .

Features and benefits

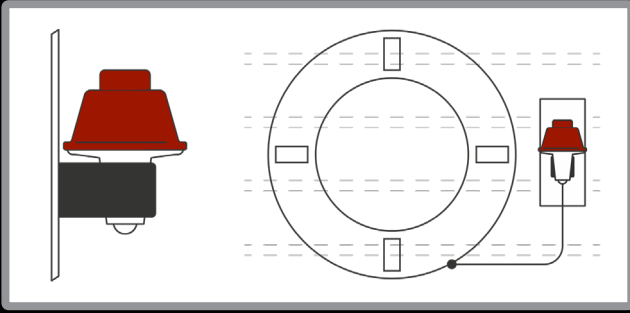
- Powerful white flashing LED light
- Gravity sensor floats LED lamp head
- Water sensors activate light
- Functional, simple and compact design
- Fixing clip designed for easy installation
- Maintenance free five year battery life
- Tamper-proof



Technical Specification

Battery	Lithium Battery
Light Source	LED
Chromaticity	White
Function	Flashing type
Flash Frequency	50 – 70 times/min
Luminous Intensity	≥ 2.0 cd
Operation Life	≥ 20 h over 2.0cd (15hrs at -1°C)
Storing Temperature	-35°C – $+85^{\circ}\text{C}$
Working Temperature	-1°C – $+30^{\circ}\text{C}$
Expiry Date	5 years
Weight	Light: 180g / Clip: 36g
Dimension	Main body: $\varnothing 90 \times 133$ mm
Activation	Automatically turn on or off by both gravity switch inside and water sensors outside
Performance	Fire-resistant, oil-resistant, mould-proof, corrosion-proof, water-proof, UV resistant
Environment Performance	Meets RoHS and asbestos-free requirement
Standards	MSC.81(70) as amended EN 60079-0 :2018 /IEC 60079-0 :2017 EN 60079-11 :2012 /IEC 60079-11 :2011 EN 60079-28 :2015 /IEC 60079-28:2015
Certifications	MED & USCG; ATEX & IECEx
Ex Marking	Ex II 1G Ex ia op is IIC T4 Ga $-35^{\circ}\text{C} \leq \text{Ta} \leq 85^{\circ}\text{C}$ (Zone 0,1,2)

Fitting



- > The lifebuoy light is suitable to be installed with all types of lifebuoys, but should not be installed in an electrostatic charge conductive location. The capacitance of unearthed conductive parts is 15pF.
- > It comes with a clip and rope. The clip should be mounted adjacent to the lifebuoy, and the light placed on the clip and firmly tied to the lifebuoy with the rope.
- > When the lifebuoy is thrown into the water, the light must be automatically pulled from the clip and thrown into the water with the lifebuoy.

Operation

- > The light was designed with a gravity sensor and water sensor double activation system.
- > When the lifebuoy light enters the water, the head of LED lamp will automatically float above water due to the gravity design.
- > The water sensor will automatically activate the light and output a flashing white light more than 2.0cd light intensity for at least 20 hours (15 hours at -1°C).
- > When the sensors leave the water, the light will automatically turn-off.

Maintenance

The light is maintenance free, but the following checks should be made annually:

- > Inspect unit for signs of damage or corrosion.
- > Test the light by immersing the sensors in water, the light should flash. When the sensors leave the water the light will turn off automatically.
- > To minimize the risk from electrostatic discharge, only clean the equipment with a damp cloth and avoid friction.
- > Store in a clean, non-pollution and liquid free and electrostatic charge hazardous free environment.
- > When in storage, ensure the LED lamp end is downwards and the water sensors are dry.

Disposal

- > The unit has a five year life span from the date of manufacture, it should be replaced by the expiry date shown on the label.
- > The unit should be disposed in accordance with local regulation through an approved environment disposal agent.

Safety

The light contains a Lithium battery which must be handled correctly:

- > Do not dismantle battery pack
- > Do not make any external electrical connection
- > Do not recharge
- > Do not incinerate
- > Store between -35°C and +85°C

CE Ex 0474/12 | IMO Res. MSC 81(70)

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