



EU - TYPE EXAMINATION CERTIFICATE

According to Directive 2014/34/EU Annex III

DAN 22ATEX0205X

2 Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

3 EU - Type Examination Certificate Number: DAN 22ATEX0205X

4 Product: Navigation Lights EX (type variants specified under item 15)

5 Manufacturer: Lopolight ApS

6 Address: Bakkegårdsvej 513, 3050 Humlebæk, Danmark

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

8 Dancert Danish Technological Institute, Notified Body number 1073, 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. DAN 22ATEX0205, J198433

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

EN IEC 60079-0:2018 / AC:2020

EN 60079-7:2015/A1:2018

EN 60079-18:2015 incl. A1:2017, A2:2018

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 technical design of the specified product in accordance to the Directive 2014/34/EU. 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:



II 2G Ex mb eb IIB T5 Gb

Valid as of: 11-10-2023



For Dancert

A handwritten signature in blue ink that reads "JB Jensen".

Jørgen Baadgaard-Jensen
Adm. direktør

**13 Schedule****14 Certificate Number DAN 22ATEX0205X****15 Description of Product**

The navigation lights in the PRO-EX series can be delivered in several type variants covering different light colours, different mounting, light types, intensity, different number of light sources and so on. All type variants are of the LED type.

Basically, the navigation lights are built up around a metal enclosure where one part is the increased safety terminal box in Ex "eb" design and the other part is the "lamp housing" built in encapsulated Ex "mb" type of protection. Through the terminal box and an Ex "eb" cable gland, the user can terminate the supply cable to the internal plug/socket connector where the male part is encapsulated directly down to the electronics.

Type variants covered by this certification:

Brand Name "LOPOLIGHT"

Specifications

Supply voltage: 10 to 32 VDC

Nominal voltage: 12 to 24 VDC

The below listed type variants may be used in an ambient temperature area of:

T_{amb}: -25°C to +55°C

Lopolight Navigation Light EX - Part Numbers:

301-008ST-PRO-EX	300-136-PRO-EX	301-009ST-PRO-I-EX	301-113ST-PRO-I-EX
301-009ST-PRO-EX	301-113ST-PRO-EX	301-005ST-PRO-I-EX	301-113-PRO-I-EX
301-005ST-PRO-EX	301-113-PRO-EX	301-011KLST-PRO-I-EX	301-112ST-PRO-I-EX
301-011KLST-PRO-EX	301-112ST-PRO-EX	301-011KL-PRO-I-EX	301-112-PRO-I-EX
301-011KL-PRO-EX	301-112-PRO-EX	201-013ST-PRO-I-EX	301-112-PRO-I-EX 180°
201-013ST-PRO-EX	301-112-PRO-EX 180°	201-013-PRO-I-EX	301-114ST-PRO-I-EX
201-013-PRO-EX	301-114ST-PRO-EX	201-012ST-PRO-I-EX	301-114-PRO-I-EX
201-012ST-PRO-EX	301-114-PRO-EX	201-012-PRO-I-EX	301-114-PRO-I-EX 180
201-012-PRO-EX	301-114-PRO-EX 180	201-014ST-PRO-I-EX	301-115-PRO-I-EX
201-014ST-PRO-EX	301-115-PRO-EX	201-014-PRO-I-EX	301-115-PRO-I-EX 180°
201-014-PRO-EX	301-115-PRO-EX 180°	201-015ST-PRO-I-EX	201-023S-ST-PRO-I-EX
201-015ST-PRO-EX	201-023S-ST-PRO-EX	201-015-PRO-I-EX	201-023S-PRO-I-EX
201-015-PRO-EX	201-023S-PRO-EX	301-108ST-PRO-I-EX	200-064-PRO-I-EX
301-108ST-PRO-EX	200-064-PRO-EX	301-109ST-PRO-I-EX	301-119S-ST-PRO-I-EX
301-109ST-PRO-EX	301-119S-ST-PRO-EX	301-105ST-PRO-I-EX	301-140-RPM-PRO-I-EX
301-105ST-PRO-EX	301-140-RPM-PRO-EX	300-138-PRO-I-EX	
300-138-PRO-EX	301-008ST-PRO-I-EX	300-136-PRO-I-EX	

**16 Report Number**

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17 Specific Conditions of Use

1. The navigation lights must by the installation be protected externally against the prospective short circuit current which is available in the installation in question. This is done by installation of a fuse that can break this short circuit current. If the rated networks voltage does not exceed 250V, the prospective short-circuit current is usually set to 1500A with a rating of 1A Fast.
2. Ambient temperature area: T_{amb} : -25°C to +55°C

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:

None

19 Drawings and Documents

Description	Drawing no.	Rev.	Date
Marking Plate / Warning labels	Template for Ex-engraving	1.02	26-09-2023
Installation Guide	601-326	01	25-09-2023
Protection circuit	Protection circuit Eex / ATEX products	0	22-09-2023
300-112ST-PRO-EX, 2nm 360° White, Double, Ex zone 1 & 2 on a 400-037-EX Promount base	300-112ST-PRO-EX	0	01.05-2023
300-138-PRO-EX, 6nm Masthead, Double. Black, Ex Zone 1 & 2, On a 400-037EX Promount base and 400-404 PE base plate, Cable Side	300-138-PRO-EX		03-05-2023



Starboard sidelight, double	301-008ST-PRO-EX	0	09-05-2023
Port sidelight, double	301-009ST-PRO-EX	0	09-05-2023
Stern light, double	301-005ST-PRO-EX	0	09-05-2023
225° Masthead, double, 5nm	301-011KLST-PRO-EX	0	09-05-2023
225° Masthead, single, 5nm	301-011KL-PRO-EX	0	09-05-2023
Towing stern, double	201-013ST-PRO-EX	0	02-05-2023
Towing stern, single	201-013-PRO-EX	0	01-05-2023
360° White, double	201-012ST-PRO-EX	0	01-05-2023
360° White, single	201-012-PRO-EX	0	01-05-2023
360° Red, double	201-014-PRO-EX	0	03-05-2023
360° Red, single	201-014-PRO-EX	0	03-05-2023
360° Green, double	201-015ST-PRO-EX	0	30-08-2023
360° Green, single	201-015-PRO-EX	0	01-05-2023
Starboard sidelight, double	301-108ST-PRO-EX	0	09-05-2023
Port sidelight, double	301-109ST-PRO-EX	0	09-05-2023
Stern light, double	301-105ST-PRO-EX	0	10-05-2023
Masthead, double	300-138-PRO-EX	0	03-05-2023
Masthead, single	300-136-PRO-EX	0	03-05-2023
Towing stern, double	301-113ST-PRO-EX	0	02-05-2023
Towing stern, single	301-113-PRO-EX	0	01-05-2023
360° White, double	301-112ST-PRO-EX	0	01-05-2023
360° White, single	301-112-PRO-EX	0	01-05-2023
180° White, single	301-112-PRO-EX 180°	0	30-08-2023
360° Red, double	301-114ST-PRO-EX	0	03-05-2023
360° Red, single	301-114-PRO-EX	0	03-05-2023
180° Red, single	301-114-PRO-EX 180°	0	30-08-2023
360° Green, single	301-115-PRO-EX	0	01-05-2023
180° Green, single	301-115-PRO-EX 180°	0	30-08-2023
360° Yellow Strobe, double	201-023S-ST-PRO-EX	0	03-05-2023
360° Yellow Strobe, single	201-023S-PRO-EX	0	03-05-2023
Maneuvering light, single	301-112-PRO-EX	0	01-05-2023
225° Yellow, Double, Flash, 1Hz, 3nm	301-119S-ST-PRO-EX	0	09-05-2023
Blue Steering , dimm via RPM control	301-140-RPM-PRO-EX	0	01-05-2023
Starboard sidelight, double, ice class	301-008ST-PRO-EX	0	09-05-2023



Port sidelight, double, ice class	301-009ST-PRO-EX	0	09-05-2023
Stern light, double, ice class	301-005ST-PRO-EX	0	09-05-2023
225° Masthead, double, 5nm, ice class	301-011KLST-PRO-EX	0	09-05-2023
225° Masthead, single, 5nm, ice class	301-011KL-PRO-EX	0	09-05-2023
Towing stern, double, ice class	201-013-PRO-EX	0	02-05-2023
Towing stern, single, ice class	201-013-PRO-EX	0	01-05-2023
360° White, double, ice class	201-012ST-PRO-EX	0	01-05-2023
360° White, single, ice class	201-012-PRO-EX	0	01-05-2023
360° Red, double, ice class	201-014-PRO-EX	0	03-05-2023
360° Red, single, ice class	201-014-PRO-EX	0	03-05-2023
360° Green, double, ice class	201-015ST-PRO-EX	0	30-08-2023
360° Green, single, ice class	201-015-PRO-EX	0	01-05-2023
Starboard sidelight, double, ice class	301-108ST-PRO-EX	0	09-05-2023
Port sidelight, double, ice class	301-109ST-PRO-EX	0	09-05-2023
Stern light, double, ice class	301-105ST-PRO-EX	0	10-05-2023
Masthead, double, ice class	300-138-PRO-EX	0	03-05-2023
Masthead, single, ice class	300-136-PRO-EX	0	03-05-2023
Towing stern, double, ice class	301-113ST-PRO-EX	0	02-05-2023
Towing stern, single, ice class	301-113-PRO-EX	0	01-05-2023
360° White, double, ice class	301-112ST-PRO-EX	0	01-05-2023
360° White, single, ice class	301-112-PRO-EX	0	01-05-2023
180° White, single, ice class	301-112-PRO-EX 180°	0	30-08-2023
360° Red, double, ice class	301-114ST-PRO-EX	0	03-05-2023
360° Red, single, ice class	301-114-PRO-EX	0	03-05-2023
180° Red, single, ice class	301-114-PRO-EX 180°	0	30-08-2023
360° Green, single, ice class	301-115-PRO-EX	0	01-05-2023
180° Green, single, ice class	301-115-PRO-EX 180°	0	30-08-2023
360° Yellow Strobe, double, ice class	201-023S-ST-PRO-EX	0	03-05-2023
360° Yellow Strobe, single, ice class	201-023S-PRO-EX	0	03-05-2023
Maneuvering light, single, ice class	301-112-PRO-EX	0	01-05-2023
225° Yellow, Double, Flash, 1Hz, 3nm, ice class	301-119S-ST-PRO-EX	0	09-05-2023
Blue Steering , dimm via RPM control, ice class	301-140-RPM-PRO-EX	0	01-05-2023