

LOPO
LIGHT



NEWS

ATEX/IEC Ex LIGHTS



LOPOLIGHT PROFESSIONAL EX SERIES LIGHTS

WHY EXPLOSION PROOF NAVIGATION LIGHTS?
The location of the Navigation lights onboard leaves little room for flexibility. It is important that your vessel is displaying the correct lights at the correct position demanded by the COLREGS – this enhances safety at sea by lowering the risk for misunderstandings.

The number of vessels with an ATEX/IEC Ex zone is increasing rapidly. Consider the growing fleet of NLG tankers and the associated infrastructure such as tugs, pilot boats and service vessels, or the hundreds of vessels in build now using NLG, Methanol, Ammonia, and others – all with ATEX/IEC Ex zones. And then we have all the oil rigs, with their signal lights.
All in need for no-compromise, rugged, fit 'n forget light solution.



ALWAYS SAFE – NOW WE HAVE PROOF

From the first designs 20 years ago – where the electronics of the lights was fully encapsulated in epoxy, power consumption was 1/10 of the comparable incandescent lights, we had a feeling that the product was safe to use in areas where flammable gases could be present. Immediately after receiving our ISO 9001, quality management certification, which is a pre-requisite for any ATEX certification we went to work on getting the Lopolight Professional Series certified for ATEX and IEC Ex.

APPROVED FOR BOTH ATEX/IEC Ex ZONE 1 AND 2

The Lopolight Professional EX Series is formally approved for use in ATEX/IEC Ex equipment group II, Category 2, Zone 1 (and therefore also Zone 2).

The difference between the mentioned zones can be described like this: Zone 1 is an area that is classified ‘as a place in which an explosive atmosphere consisting of a mixture with air or flammable substances in the form of gas, vapours and mists is likely to occur occasionally during normal operation’, whereas Zone 2 is an area that

is classified ‘as a place in which an explosive atmosphere consisting of a mixture with air or flammable substances in the form of gas, vapours and mists is not likely to occur in normal operation but if it does occur, it will be present for a short period of time only’

THE LOPOLIGHT ATEX/IEC Ex SOLUTION

The Professional EX Series lights are kept in the exact same form factor as the regular Professional Series, the difference is in the manufacturing; the use of ATEX/IEC Ex certified components such as connectors and cable glands. The marking is ATEX/IEC Ex specific and there is a grounding strap.

The full range of the Professional Series are available in the EX configuration – including the ice-class lights!

The EX Series lights are fully compatible with the Lopolight Navigation Light Control & Monitoring system.

Commercially available in 2023.

| Range | Under 50 meters | | Over 50 meters | |
|-----------------------------|---------------------------|----------------------|---------------------------|----------------------|
| | Regular temperature range | Ice-class | Regular temperature range | Ice-class |
| Starboard sidelight, double | 301-008ST-PRO-EX | 301-008ST-PRO-I-EX | 301-108ST-PRO-EX | 301-108ST-PRO-I-EX |
| Port sidelight, double | 301-009ST-PRO-EX | 301-009ST-PRO-I-EX | 301-109ST-PRO-EX | 301-109ST-PRO-I-EX |
| Stern light, double | 301-005ST-PRO-EX | 301-005ST-PRO-I-EX | 301-105ST-PRO-EX | 301-105ST-PRO-I-EX |
| Masthead, double | 300-038-PRO-EX | 300-038-PRO-I-EX | 300-138-PRO-EX | 300-138-PRO-I-EX |
| Towing stern, double | 201-013ST-PRO-EX | 201-013ST-PRO-I-EX | 301-113ST-PRO-EX | 301-113ST-PRO-I-EX |
| 360° White, double | 200-012G2ST-PRO-EX | 200-012G2ST-PRO-I-EX | 300-112G2ST-PRO-EX | 300-112G2ST-PRO-I-EX |
| 360° White, single | 200-012G2-PRO-EX | 200-012G2-PRO-I-EX | 300-112G2-PRO-EX | 300-112G2-PRO-I-EX |
| 360° Red, double | 200-014G2ST-PRO-EX | 200-014G2ST-PRO-I-EX | 300-114G2ST-PRO-EX | 300-114G2ST-PRO-I-EX |
| 360° Red, single | 200-014G2-PRO-EX | 200-014G2-PRO-I-EX | 300-114G2-PRO-EX | 300-114G2-PRO-I-EX |

TECHNICAL DETAILS.

Design, dimensions and quality as the Lopolight Professional series navigation lights: Hard coat anodized aluminium housings, PMMA optics, fully encapsulated, all upgraded to ATEX/IEC Ex

Approved to:

COLREG72, MED (Wheelmark), UL1104, DNV, ABS
ATEX/IEC Ex equipment group II, Category 2, Zone 1.

Standards: ISO/IEC 80079-34:2020, IEC 60079-18:2015, IEC 60079-7:2015

Ex mb eb IIB T5 Gb

Ex = Explosion protected

mb = Encapsulation zone 1

eb = Increased safety

IIB = Gas group marking = Ethylene

T5 = Max surface temp 100 °C

Gb = Equipment protection level

