

Ex PlutoLED

Portable, safety LED lighting with high level of protection intended for use in hazardous areas with explosive gas and dust atmospheres

| type of protection | Ex d | Ex tb | GAs GrouPs | | DusT GrouPs |
|----------------------------|-------|-------|------------|-----|-------------|
| | | | IIB | IIC | IIIC |
| Equipment protection level | ZoNE | 1 | 2 | 21 | 22 |
| | LEVEL | Gb | Gc | Db | Dc |

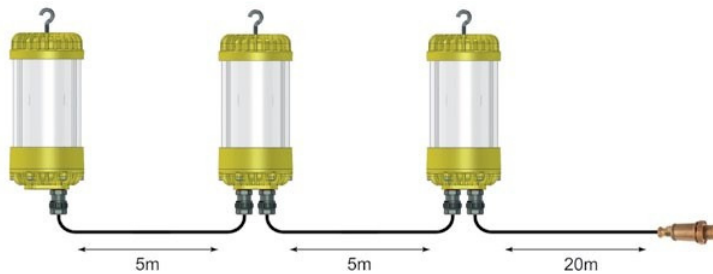
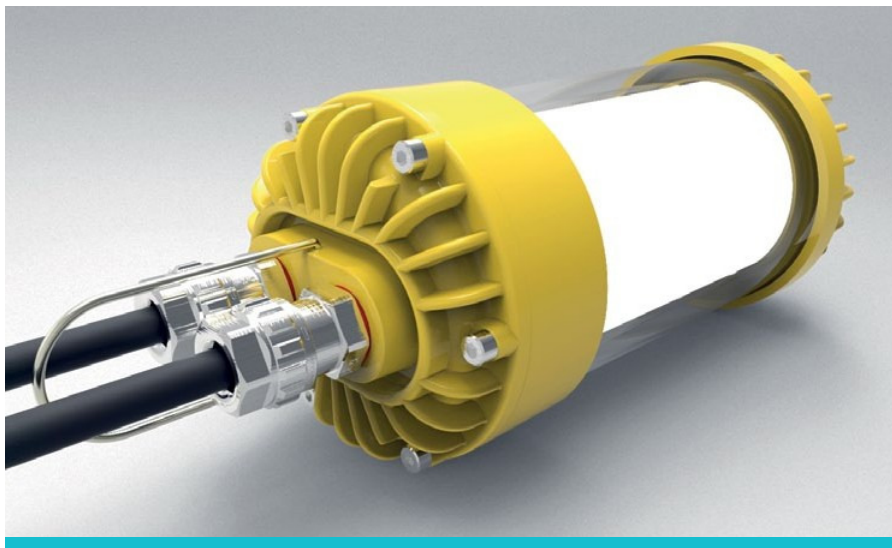
The lamp is designed for usage in shipbuilding- and offshore industries for both indoor and outdoor spaces. The lamp can be used as portable lighting and as general fixed lighting.

There are two voltages available, 230VAC and 42VAC which is in compliance with the highest safety standards (CENELEC norm HD63751).

Ex PlutoLED weighs only 2.3kg, has high lumen output and high level of mechanical protection, IP66 and IK8.

Ex PlutoLED is a state of the art lamp with many outstanding features. The lamp is not engineered with a retrofitted LED light source, but a purposely designed LED light source. The fixture acts as an robust and reliable external enclosure that is also a heat sink for efficient LED cooling

The main priority while developing the EX PlutoLED was to make a low weight, compact lamp that is easy to work with.



Ex PlutoLED

- Designed for application in hazardous, indoor and outdoor areas
- Available in 230VAC model and 42VAC model
- Applicable in Hazardous zones: 1, 2, 21, 22



Ingress Protection
GLASS

IP66

IK8

Light source

**LED module
5000K, 360°**

main advantages of Ex PlutoLED

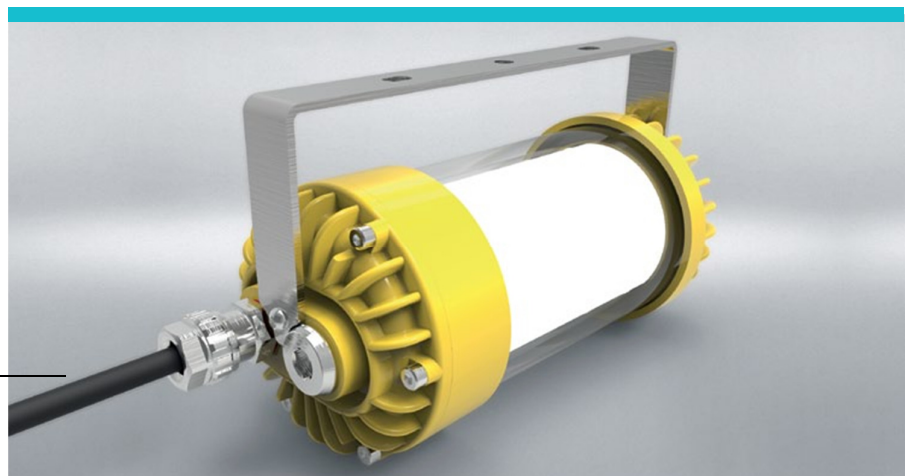
- significant cost reductions
- Energy savings
- Increase in lighting operation reliability
- Increase in worker productivity

Ex PlutoLED Features

- Ex PlutoLED enables outstanding thermal management since the LED engine is attached directly to the top and bottom cover, acting as a heat sink
- Circular LED light source of 360° or 180° depending on the model
- High light intensity with no glare effect
- Low weight of 2,3kg

ExPlutoLED can be used both as fixed and portable lighting.

| Ex PlutoLED | 42v/25W | 230v/30W |
|---|---|------------------|
| Electrical Characteristics | | |
| Nominal Voltage | 42VAC | 230VAC |
| operating Voltage | 38 - 48VAC; 38 - 60VDC | 210 - 250VAC |
| Total Power | ~25W | ~30W |
| Power Factor | ≥ 0,98 at 42VAC | > 0,98 at 230VAC |
| Total Harmonic Distortion | ~8 % | ~13% |
| operating Temperature | -40°C to +50°C | |
| Light Characteristics | | |
| Lumen output | ~2500lm | ~3500lm |
| Luminary Efficacy | ~100lm/W | ~115lm/W |
| CCT (Correlated Colour Temperature) | 5000K | |
| CrI (Colour rendering Index) | 80 - 85 | |
| Estimated service life | 60.000 working hours temp. 25°C | |
| Protection, Construction, Dimensions | | |
| IP rating | IP66 | |
| Protection | IK8, oVP, oTP | |
| Diffuser | PMMA 2,5mm | |
| Housing | Aluminum alloy powder painted with tempered borosilicate glass tube | |
| Fixture Weight | 2,3kg | |
| Dimensions | D110 x H268mm | |
| Cable entry | 2xM20 glands or M20 gland and M20 plug | |
| Connection cable | 3x1.5mm ² or 3x2.5mm ² | |
| Connection terminal | L1,N,PE max 3x2.5mm ² External PE terminal M5 | |
| Certificate | EXA 16 ATEX 0069X | |
| Explosion protection | II 2G Ex db IIC T6 Gb; II 2D Ex tb IIIC T85°C Db | |



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