

Combined Flood, Deck Edge & Service Light

Product CFDEL H20015-00-00x / Naval Applications

"The Crab"



The Combined Flood, Deck Edge & Service Light (CFDEL) serves multiple specific light functions:

- Marking the landing area limits with Deck Edge Lights integrated on top of the housing.
- Serving as Deck Flood Lights, emitting dazzle free light at a vertically narrow beam in two colours (WH, GN).
- Highlighting the T-Line, or working as Service Lights to illuminate the helicopter after landing assisting visual inspections and passenger operations.

The CFDEL is compatible to Night Vision Goggle (NVG) mode according to STANAG 1445 / Stage 2, details depending on the selected light colour.

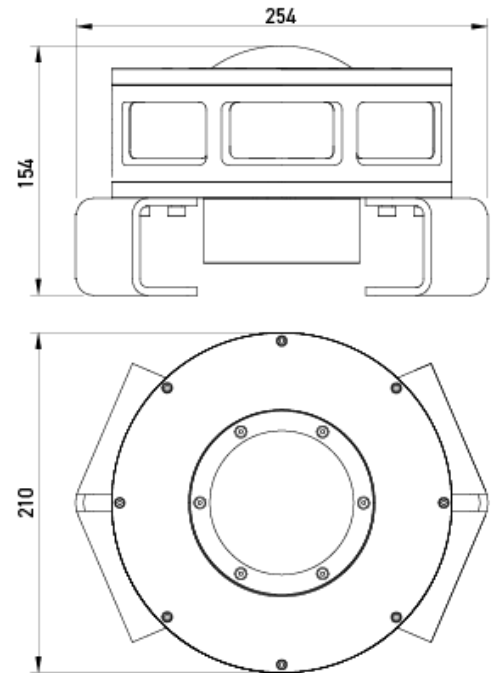
The light has a low and compact housing made of massive seawater resistant aluminium, designed for performance in extreme marine environments. The light intensity can be dimmed in 65K steps, configured in eight or more user defined levels via the control system.

System integrity and operational reliability is monitored by multiple sensors measuring temperature, humidity, and electric current. These internal electronics provide constant monitoring of the CFDEL status and ensure that degradations can be detected generally before such event.

Benefit of the electronic features is granted in combination with Optonaval's software suite Albatross, starting with the module AlbaNavy. Please refer to the relevant Software Documentation.

PRODUCT SPECIFICATION

ELECTRICAL SPECIFICATION	
Supply voltage	48 V DC
Power	30 W rated / 45 W max
OPERATING CONDITIONS	
Ambient temperature	-32°C to 49°C
Ingress protection level	IP66/67
Shock	acc. to MIL-STD-810H / 10G
Vibration	acc. to MIL-STD-810H
EMC	acc. to MIL-STD-461G
NVIS	acc. to STANAG 1445, Stage 2
MECHANICAL SPECIFICATION	
Dimensions	Ø210x254x154 mm
Weight	approx. 5 kg
Housing colour	RAL 7000, gloss grade 80%
Housing material	sea water resistant aluminium alloy
Surface coating	anodized & powder coated
Top glass material	mineral glass
Front glass material	mineral glass
OPTICAL/LIGHT SPECIFICATION	
Light source	LED
Light colours	WH, GN (FDL), AM or GN (DEL)
FDL beam intensity	see application table
DEL intensity profile	ICAO compliant
CONNECTION & CONTROL SPECIFICATION	
Power supply / Data cable	4*2*0,75 mm ² twisted shielded
Controls	MODBUS RTU
Daisy chain	max 4 in a row



SPECIAL FEATURES

✓	One component for multiple applications
✓	Dimming in 65k steps
✓	Suitable for the use of Night Vision Goggles (NVG)
✓	Health monitoring and reporting
✓	Smart weight saving cabling
✓	Integrated in Albatross software suite
✓	Comprehensive service package and ILS support available

VARIANTS & APPLICATIONS

ON Part-no.	Product Type	Light Intensity
H20015-00-002	Ø210x254x154mm - NVG - AM	to be provided on request
H20015-00-004	Ø210x254x154mm - NVG - WH/GN - BU	
H20015-00-005	Ø210x254x154mm - NVG - WH/GN - AM	
H20015-00-006	Ø210x254x154mm - Line Light NVG - WH/GN - AM	
H20015-00-007	Ø210x254x154mm - AM	
H20015-00-008/009	Ø210x254x154mm - AM - HSL on one side 1 / 2	
H20015-00-010	Ø210x254x154mm - WH/GN - GN	
H20015-00-011	Ø210x254x154mm - GN	
H20015-00-012/013	Ø210x254x154mm - GN - HSL on one side 1 / 2	
H20015-00-014	Ø210x254x154mm - Line Light - WH/GN - GN	
H20015-00-015	Ø210x254x154mm - AM - HSL in the middle	