

Universal Indicator Light

Product UIL H20006-00-00x



The Universal Indicator Light (UIL) serves multiple purposes based on an identical housing, e.g. Wave-Off-Light (WOL), Obstruction Light (OL), Helicopter-In-Flight Refuelling Light (HIFRL) and Homing Beacon (HB). As most of the parts are common, the consequent use of UILs on board reduces spare parts and ILS related effort.

The Wave-Off-Light flashes at a customized rate, usually in red and switched over to green in NVG mode. Two WOLs should be placed next to the Glide Path Indicator, visible from 2 NM onwards. The blue shining Obstruction Lights should mark the outer edges of the superstructure and the mast, i.e. the number depends on the general arrangement. In case of inflight refuelling capabilities, three Helicopter-In-Flight Refuelling Lights are arranged in one row on top of the hangar, thus assisting the pilot to align the helicopter for safe refuelling. In most cases, HIFR Lights are in amber. The Homing Beacon, also called flash light, is a powerful white light, to be seen in approx. 10 NM. Common flash rates are 90 flashes p.m., can be set via the control panel. Optonaval offers various options, e.g. with shader boards to limit the vertical light emission to $\pm 10^\circ$ from horizontal line.

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

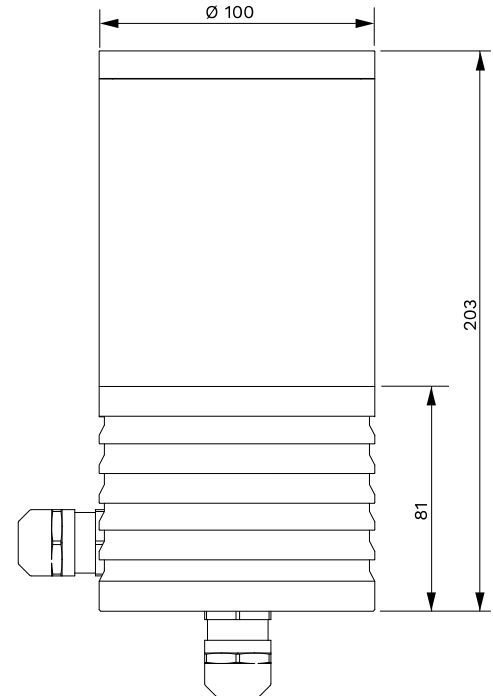
The light has a low and compact housing made of massive seawater resistant aluminium, designed for performance in extreme marine environments. Cable outlet can either be at the side or at the bottom. The light intensity can be dimmed in 65K steps, configured in eight or more user defined levels via the 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 UIL status and ensure that degradations and failures 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	see application table
OPERATING CONDITIONS	
Ambient temperature	-32°C to 45°C
Ingress protection level	IP66
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	Ø100x203 mm
Weight	approx. 2,3 kg
Housing colour	RAL 7000, gloss grade 80%
Housing material	sea water resistant aluminum alloy
Surface coating	anodized & powder coated
Tube material	PMMA
OPTICAL/LIGHT SPECIFICATION	
Light source	LED
Light colours	see applications table
Beam angle	360° azimuth
Beam intensity	see applications
CONNECTION & CONTROL SPECIFICATION	
Power supply / Data cable	4*2*0,75 mm² twisted shielded
Controls	MODBUS RTU
Daisy chain	max 4 in a row



SPECIAL FEATURES

✓	One common design for multiple applications
✓	Reducing ILS effort
✓	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 and ILS package available

VARIANTS & APPLICATIONS

ON Part-no.	Product Type	Power & Light Intensity
H20006-00-001/002	360° - RD - 2NM - CBL BTM / AFT - OL	to be provided on request
H20006-00-003/004	360° - AM - 2NM - CBL BTM / AFT - HIFRL	to be provided on request
H20006-00-005/006	360° - RD/GN - 2NM - CBL BTM / AFT - WOL	to be provided on request
H20006-00-007/008	360° - WH - 10NM - CBL BTM / AFT - HBL	to be provided on request