OPTONAVAL

DATASHEET

for

Perimeter, Deck and Service Flood Light (retractable)

Product PDSFL-R H20014 / Yacht Applications

The Optonaval Perimeter, Deck and Service Flood Light (PDSFL-R) is designed to offer an almost deck even Perimeter Light which does not create any obstacle for persons walking along the deck. The FDEL offers an elegant and minimalistic design with no visible screws and will optimally fit into an ambitious deck layout.

The Optonaval PDSFL-R combines three different functions to illuminate the flight deck in the best possible way:
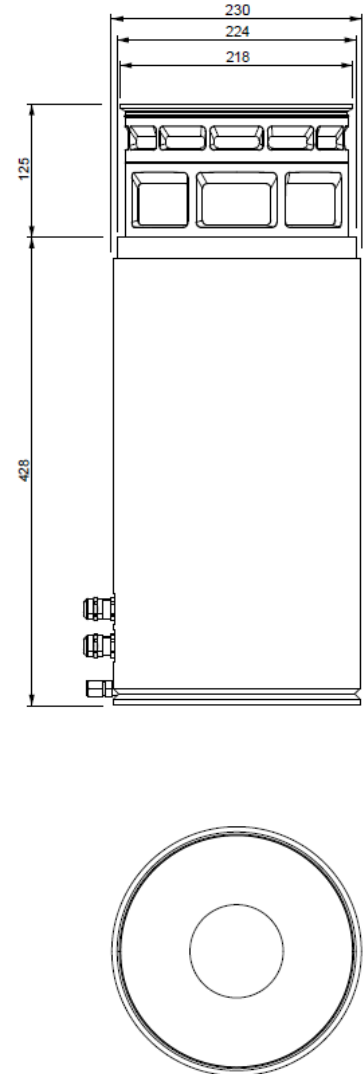
1. Perimeter Light (PERL) - The Light is aimed at providing light from abt. 0° (horizontal) upwards with a characteristic along CAP 437 requirements for Perimeter Lights.

2. Deck Flood Light (DFL) – equipped with a downward directed light beam to illuminate only the flight deck. This light is also available in a very limited horizontal angle of not more than 10° to illuminate deck markings.

3. Helicopter Service Light (HSL) (optional) - used after touch-down to illuminate the helicopter for service, refueling, crew/passenger boarding.

The Light comes with Optonaval´s standard Multi Sensor Electronics, measuring multiple modes of operation, detecting an upcoming malfunction before the Light might fail. It can also be operated by customer supplied (existing) control systems with a simple on/off functionality. The mode of installation can be anything like welding, bolting, gluing, both from above and below deck.

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PRODUCT SPECIFICATION

ELECTRICAL SPECIFICATIONS	
Supply voltage	48 V DC
Power	70 W rated
OPERATING CONDITIONS	
Ambient temperature	-20°C to 50°C
Ingress protection level	IP66/67
Shock	acc. to MIL-STD-810G / BV 0230
Vibration	acc. to MIL-STD-810G / BV 0240
EMC	acc. to MIL-STD-461G / VG 95373
NVIS compatible	acc. to MIL-STD-3009 Type II class B
Operating pressure	6 bar / ISO 8573-1:2010 [7:4:4]
MECHANICAL SPECIFICATIONS	
Dimensions	Retractable-Light: Ø218x125 mm Installation-Pot: Ø230x428 mm
Weight	approx. 12,5 kg
Housing color	RAL Classic
Housing material	Light Element: seawater resistant aluminum alloy; Stst Cover Installation Pot: aluminum or stainless steel
Surface coating	powder coated
Front glass material	Mineral Glas
Top glass material	VSG
OPTICAL/LIGHT SPECIFICATIONS	
Light source	LED
Light colors	GN (PERL) WH (DFL) WH (HSL)
Luminous flux	100 (PERL) 950 lm (DFL) 1000 lm (HSL)
Beam angle	0-10° / 10-20° / 20-90° vertical (PERL) 130° horizontal / -8-0° vertical (DFL) 100° horizontal / 0-35° vertical (HSL)
Beam intensity	acc. to CAP437 / ICAO
ADDITIONAL DOCUMENTS	
Installation Drawing	H20014-50-006_InstallationDrawing
Installation Manual	H20014-51-006_InstallationManual
Operating Manual	H20014-81-006_OperatingManual
Maintenance Manual	H20014-82-006_MaintenanceManual

Installation Pot

APPLICATIONS

ON-part-no.	Product type
H20014-00-006	Ø218x125mm - GN - External Pneumatic Box