



Navigation Lights



Signalling Lights



Searchlights



Whistles

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# TECHNICAL MANUAL

## DHR75 LED



**Den Haan Rotterdam**



Since 1922



# LEGAL NOTICE

This manual has been prepared with due care. However, DHR reserves the right to modify product specifications, design, and documentation without prior notice as part of continuous product improvement.

While every effort has been made to ensure the accuracy of the information contained in this manual, DHR does not accept liability for errors or omissions in this documentation.

The information in this manual is intended for qualified personnel and must be used in accordance with applicable regulations, standards, and good marine engineering practice.

Illustrations and examples are provided for reference purposes only and may differ from the actual product configuration.

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# GENERAL DESCRIPTION

The DHR75 LED signalling light is designed for reliable, maintenance-free operation in demanding marine and industrial environments. Based on the proven DHR73 platform, it combines robust construction with simplified installation.

The DHR75 is available in dedicated 24 VDC or 115/230 VAC versions. Each unit is factory-configured with a fixed operating mode per article code:

- Steady (continuous) light
- 60 flashes per minute
- 120 flashes per minute
- 180 flashes per minute

The supply voltage and operating mode are fixed during manufacturing and are not field-adjustable.

The housing is manufactured from glass-fibre reinforced polycarbonate to provide high mechanical strength. The enclosure design ensures IP67 ingress protection and compliance with applicable EMC requirements, supporting reliable operation in harsh environmental conditions.

Installation is facilitated by the moulded Phoenix QPD plug-and-play connector, providing IP66 protection when unmated and IP67 protection when properly mated. A standard 4-hole mounting pattern and optional adapter plate allow installation in both retrofit and new-build applications.

The DHR75 is assembled under controlled conditions to ensure conformity with its specified environmental and electrical performance characteristics. The integrity of the enclosure assembly is essential to maintain these characteristics.

Although the product may be serviced by the manufacturer, it is not intended to be opened during installation or normal operation. Opening or disassembling the enclosure may compromise ingress protection, electrical safety, compliance with applicable standards and voids warranty. Repairs, if required, must only be performed by DHR or an authorized service partner.

# TECHNICAL DATA

**APPLICATION:**

- Vessels carrying dangerous cargoes
- Vessels of official guards
- Fire fighting vessels
- As general signalling light

**MATERIALS:**

- Well glass, borosilicate, Ø64 x Ø49 x 73mm
- Power supply, encapsulated EH-E83
- Housing, matt black, polycarbonate, reinforced with fibre glass

**OPTICAL:**

- Minimum visibility 3 NM (blue 2 NM)
- Colours: Green, Red, White, Yellow and Blue
- Light intensity and colour specification, according to the European standard EN 14744

**SIGNAL FREQUENCY:**

Continuously or 60, 120, 180 flashes p/min.

**POWER SUPPLY:**

**Dual**, 85 up to 264VAC and 24VDC -20% / +30%. - Pmax. 5W  
Assembled as 115/230VAC or 24VDC

**ELECTRICAL INSULATION CLASS:**

I, (grounded)

**PROTECTION CLASS:**

IP 66/67 with membrane vent

**LIFE TIME:**

50,000 Hours

**OPERATION TEMPERATURE:**

-40°C up to +55°C

**MOUNTING:**

Base

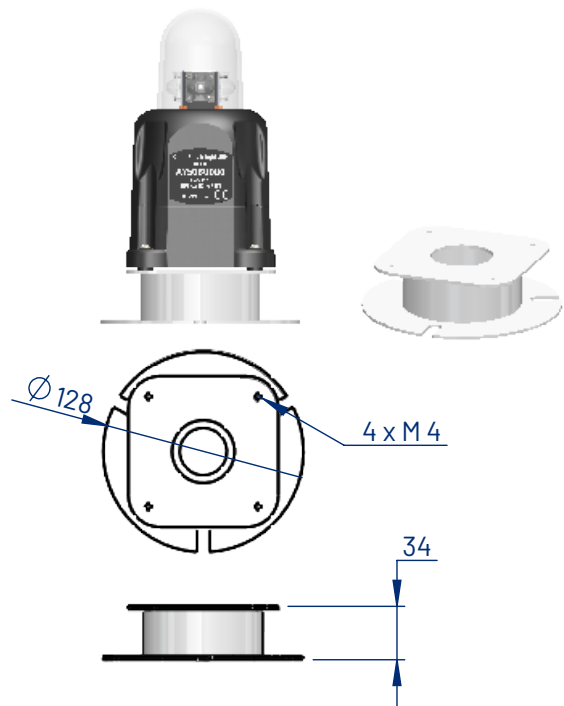
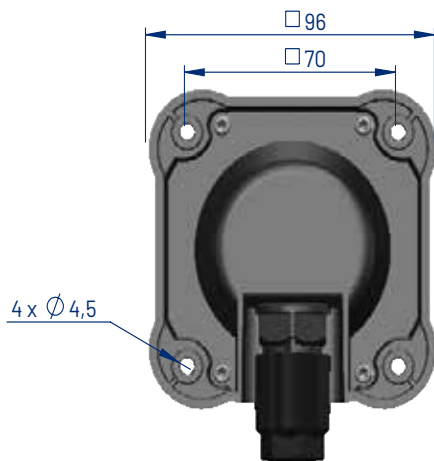
**CABLE ENTRY:**

Completely sealed QPD-connector , for cable diameter **5 - 9,5** mm. On request **10 - 13** mm

# PRODUCT PHOTO



# DIMENSIONS



Adaptor plate DHR73 to DHR75

All dimensions in mm.

# ARTICAL CODE STRUCTURE

## STEP 1 - SELECT COLOUR (ARTICLE CODE)

Colour	Artical Code	Product Description
White	75060000	DHR75 Signal light, white
Red	75070000	DHR75 Signal light, red
Green	75080000	DHR75 Signal light, green
Yellow	75090000	DHR75 Signal light, yellow
Blue	75100000	DHR75 Signal light, blue

## STEP 2 - SELECT VOLTAGE & FLASHING RATE (VARIANT CODE)

Flashing mode	24VDC	115/230VAC
Continuously	DC000	AC00
60 flashes/min.	DC060	AC060
120 flashes/min.	DC120	AC120
180 flashes/min.	DC180	AC180

### ORDER FORMAT

#### Order code structure:

DHR75 - Article code - Variant code

#### Example:

DHR75 - 75070000 - AC120

#### Description:

DHR75 Signal light - Red - 115/230VAC / 120 flashes per minute

### ACCESSORIES

75990041     Adaptor plate DHR73 to DHR75

# MOUNTING INSTRUCTIONS

## CONNECTING THE CABLE WITH PHOENIX CONNECTOR



1. Strip the cable 60 mm and prepare the PE conductor.



2. Guide the wires into the nut and push them into the marked (1, 2, 3, etc.) wire guides until they engage.



3. Cut off the stranded wire ends so they are flush.



4. Place the union nut on the contact carrier and tighten it until it stops or use the specified torque for tightening.



5. You will feel the wires engage when they have reached the optimum screw-on width. The QUICKON nut is now screwed on so tight that it cannot be unscrewed again by hand.



6. The cable can be connected quickly and easily without using any special tools.

## CABLE RECOMMENDATIONS

### EU:

- Flexible rubber cable type **H07RN-F 3Gxx** (or equivalent)
- Rated voltage: 450/750 V
- Conductor cross-section: 0,5 - 1.5 mm<sup>2</sup> copper
- Temperature rating: minimum 90°C
- Outer cable diameter suitable for cable gland range: 6 – 9.5 mm

### USA:

- Flexible cord type **SJOW, SJOOW** or **SOOW** (or equivalent)
- Compliant with UL 62
- Installation in accordance with IEEE 45 (where applicable)
- Conductor size: 16 -20 AWG stranded copper
- Number of conductors: 3 (including equipment grounding conductor)
- Temperature rating: minimum 90°C
- Outer cable diameter suitable for cable gland range: 0.236 – 0.374 inch

## IMPORTANT

Do not paint or use any other chemical for the lanterns, clean only with fresh water.

## MOUNTING ORIENTATION

The DHR75 may be installed upside down as well.

The enclosure design ensures that ingress protection (IP67) and electrical safety are maintained regardless of mounting position.

The supplied base gasket is intended to prevent water accumulation between the luminaire base and the mounting surface.

Although the ingress protection of the enclosure is not dependent on the gasket, installation of the supplied gasket is recommended to:

- Prevent standing water in mounting recesses
- Reduce long-term exposure to moisture at the mounting interface
- Minimize the risk of contamination



Base gasket



# SERVICE & WARRANTY

## SERVICE

The DHR75 contains no user-serviceable parts.

In the event of malfunction, the unit must not be opened or repaired on site. Inspection, testing, and repair may only be performed by DHR or an authorized service partner.

For service support, contact DHR and provide:

- Product type (DHR75)
- Article code
- Variant code
- Serial number (if applicable)
- Description of the issue and installation conditions

Units returned for inspection must be shipped properly packaged to prevent transport damage.

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## WARRANTY

DHR warrants that the DHR75 is free from manufacturing defects under normal use and installation in accordance with this manual.

Warranty coverage is subject to:

- Installation according to the instructions in this manual
- Use within specified electrical and environmental limits
- No unauthorized modification or repair

The warranty becomes void if:

- The enclosure has been opened
- The product has been modified
- Repairs have been performed by unauthorized personnel
- The product has been used outside its specified operating conditions

The presence of a warranty seal or “warranty void” label indicates that the unit was factory assembled under controlled conditions. Damage to or removal of this seal will be considered evidence of unauthorized opening

# ADVANCED MARITIME SIGNALLING SOLUTIONS



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