



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAE00002JD**  
Revision No:  
**1**

## This is to certify:

That the **Electrical Equipment**

with type designation(s)

**GT50R38.01, GT50R062.01, GT063R062.01, GT070R022.01, GT070R001.01, GT070R062.01, GT070R066.GL, GT070R68.31**

Issued to

**Kendrion (Donaueschingen/Engelswies) GmbH**  
**Donaueschingen, Baden-Württemberg, Germany**

is found to comply with

**DNV rules for classification – Ships, offshore units, and high speed and light craft**

## Application :

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.**

**Temperature B**  
**Humidity B**  
**Vibration B**

Issued at **Hamburg** on **2023-01-27**

This Certificate is valid until **2028-01-10**.

DNV local unit: **Augsburg**

Approval Engineer: **Holger Jansen**

for **DNV**

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**Joannis Papanuskas**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



## Product description

### Door Retaining Magnet

**Type: GT50R038.01**

Power: 1.5 W  
Holding force: 490 N  
Electrical connection: Metal connector box with 2 cable glands PG 13.5  
Magnet diameter: 50 mm  
Power supply: 24 Vdc  
Degree of protection: IP65, connection IP20

**Type: GT50R062.01**

Power: 1.5 W  
Holding force: 490 N  
Electrical connection: Connector box with 2 cable glands PG 11  
Magnet diameter: 50 mm  
Power supply: 24 Vdc  
Degree of protection: IP65, connection IP20

**Type: GT063R062.01**

Power: 1.5 W  
Holding force: 700 N  
Electrical connection: Connector box with 2 cable glands PG 11  
Magnet diameter: 63 mm  
Power supply: 24 Vdc  
Degree of protection: IP65, connection IP20

**Type: GT070R022.01**

Power: 1.5 W  
Holding force: 1372 N  
Electrical connection: Metal connector box with 2 cable glands PG 13.5  
Magnet diameter: 70 mm  
Power supply: 24 Vdc  
Degree of protection: IP65, connection IP20

**Type: GT070R001.01**

Power: 1.5 W  
Holding force: 1372 N  
Electrical connection: Free strands, 200mm long, without mounting plate  
Magnet diameter: 70 mm  
Power supply: 24 Vdc  
Degree of protection: Device IP65, connection IP00

**Type: GT070R062.01**

Power: 1.5 W  
Holding force: 1372 N  
Electrical connection: Connector box with 2 cable glands PG 11  
Magnet diameter: 70 mm  
Power supply: 24 Vdc  
Degree of protection: Device IP65, connection IP20

**Type: GT070R066.GL**

Power: 1.5 W  
Holding force: 1372 N  
Electrical connection: Magnet with an integrated micro switch for a feedback signal,  
Strands with terminal block, 400mm long  
Magnet diameter: 70 mm  
Power supply: 24 Vdc  
Degree of protection: Device IP65, connection IP20

**Type: GT070R068.31**

Power: 1.5 W  
Holding force: 1372 N  
Electrical connection: Nickel plated magnet with a mounting plate  
Connection via Hirschmann plug connector GDM2009 with washer GDM3-16,  
Socket GSAZ200 (washer GSAZ60/120)  
Magnet diameter: 70 mm  
Power supply: 24 Vdc  
Degree of protection: IP65, connection IP65

**Application/Limitation**

Operating instruction of the manufacturer to be observe

**Type Approval documentation**

**Tests carried out**

Applicable tests according to class guideline DNV-CG-0339, August 2021

**Marking of product**

The product to be marked with:

- Manufacturer name
- Model type
- Serial number

**Periodical assessment**

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE