



Certificate No:
TAA000032V

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Peripheral Equipment

with type designation(s)

GDME 2011 V0, GDME 2013 V0, GDME 2014 V0, GDME 2020 V0, GDME 3011 V0, GDME 3013 V0, GDME 3014 V0, GDME 3020 V0

Issued to

Belden Deutschland GmbH
Neckartenzlingen, 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.

Location classes:

Temperature	D*
Humidity	B
Vibration	B
EMC	B
Enclosure	IP65*

*** see Application/Limitation**

Issued at **Hamburg** on **2021-12-17**

This Certificate is valid until **2026-12-16**.

DNV local station: **Augsburg**

Approval Engineer: **Heinz Scheffler**

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.



Form code: TA 251

Revision: 2021-03

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Product description

GDME Heavy Duty DIN Standard Field Attachable Connector:

- **GDME 2011 V0:**
Form A, 3-pin (2+1PE; PE across cable outlet), black housing with black cover, screw type, PG11;
without circuitry, 230 V DC / 400 V AC AC/DC, 16 A
- **GDME 2013 V0:**
Form A, 3-pin (2+1PE; PE across cable outlet), black housing with black cover, screw type, PG13.5;
without circuitry, 230 V DC / 400 V AC AC/DC, 16 A
- **GDME 2014 V0:**
Form A, 3-pin (2+1PE; PE across cable outlet), black housing with black cover, screw type, G1/2";
without circuitry, 230 V DC / 400 V AC AC/DC, 16 A
- **GDME 2020 V0:**
Form A, 3-pin (2+1PE; PE across cable outlet), black housing with black cover, screw type, M20;
without circuitry, 230 V DC / 400 V AC AC/DC, 16 A
- **GDME 3011 V0:**
Form A, 4-pin (3+1PE; PE across cable outlet), black housing with black cover, screw type, PG11;
without circuitry, 230 V DC / 400 V AC AC/DC, 16 A
- **GDME 3013 V0:**
Form A, 4-pin (3+1PE; PE across cable outlet), black housing with black cover, screw type, PG13.5;
without circuitry, 230 V DC / 400 V AC AC/DC, 16 A
- **GDME 3014 V0:**
Form A, 4-pin (3+1PE; PE across cable outlet), black housing with black cover, screw type, G1/2";
without circuitry, 230 V DC / 400 V AC AC/DC, 16 A
- **GDME 3020 V0:**
Form A, 4-pin (3+1PE; PE across cable outlet), black housing with black cover, screw type, M20;
without circuitry, 230 V DC / 400 V AC AC/DC, 16 A

Application/Limitation

Location class Temperature D: Temperature-dependent derating according to EN 60512-5-2, see Datenblatt-Nr. 933-029-997

Location class Enclosure: IP 65 only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Type Approval documentation

See Annex

Tests carried out

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

Place of manufacture

See Annex

Marking of product

The products to be marked with:

- Model name
- Manufacturer name
- Serial number

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the 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



Job Id: **262.1-035401-1**
Certificate No: **TAA000032V**

Annex

- Type Approval documentation (hidden)
- Place of manufacture (hidden)