



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAA0000112
Revision No:
6

This is to certify:

that the **Network and Communication Components**

with type designation(s)
Industrial Ethernet Switches, Media Converter, SFP Transceiver

issued to

Weidmüller Interface GmbH & Co. KG
Detmold, 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 A

EMC B

Enclosure Required protection according to DNV Rules shall be provided upon installation on board

Issued at **Hamburg** on **2024-08-16**

This Certificate is valid until **2027-12-17**.

for **DNV**

DNV local unit: **Essen**

Approval Engineer: **Dariusz Lesniewski**

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: 2023-09

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Product description

The units are classed and approved for 12V to 48V DC supply voltage.
 The approved components are listed below:

Unmanaged Switch – Fast Ethernet

Article name	Article number
IE-SW-BL05-5TX	1240840000
IE-SW-BL05T-5TX	1240850000
IE-SW-BL05-4TX-1SCS	1240870000
IE-SW-BL05T-4TX-1SCS	1286530000
IE-SW-BL05-4TX-1ST	1240880000
IE-SW-BL05T-4TX-1ST	1286540000
IE-SW-BL05-4TX-1SC	1240890000
IE-SW-BL05T-4TX-1SC	1286550000
IE-SW-BL08-8TX	1240900000
IE-SW-BL08T-8TX	1286560000
IE-SW-BL08-6TX-2SC	1240910000
IE-SW-BL08T-6TX-2SC	1240920000
IE-SW-BL08-6TX-2ST	1240930000
IE-SW-BL08T-6TX-2ST	1286570000

Unmanaged Switch – Gigabit Ethernet

Article name	Article number
IE-SW-VL08-8GT	1241270000
IE-SW-VL08T-8GT	1286860000
IE-SW-VL08-6GT-2GS	1241280000
IE-SW-VL08T-6GT-2GS	1286870000

Gigabit Ethernet SFP-Transceiver

Article name	Article number
IE-SFP-1GSXLC	1241490000
IE-SFP-1GSXLC-T	1286700000
IE-SFP-1GLSXLC	1241500000
IE-SFP-1GLSXLC-T	1286710000
IE-SFP-1GLXLC	1241510000
IE-SFP-1GLXLC-T	1286720000
IE-SFP-1GLHXLC	1241520000
IE-SFP-1GLHXLC-T	1286730000

Fast Ethernet SFP-Transceiver

Article name	Article number
IE-SFP-1FEMLC-T	1241450000
IE-SFP-1FESLC-T	1241470000

Industrial Media Converter (Ethernet to Fiber)

Article name	Article number
IE-MC-VL-1TX-1SC	1241400000
IE-MC-VLT-1TX-1SC	1286880000
IE-MC-VL-1TX-1ST	1241410000
IE-MC-VLT-1TX-1ST	1286890000
IE-MC-VL-1TX-1SCS	1241420000
IE-MC-VLT-1TX-1SCS	1286900000

Compass safe distance

Steering: 800mm	Standard: 600mm
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Approval conditions

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 classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation**Tests carried out**

Applicable tests according to DNV-CG-0339, August 2021 and IACS UR E10 Rev. 8.
For the bridge mounted components the 'Acoustic noise and signals' and the 'Compass safe distance' were measured according to sections 11.1 and 11.2 of IEC 60945, 4th edition (2002).

Marking of product

The products to be marked with:

- Model name
- Applicant 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