DNV

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Network and Communication Components

with type designation(s)
Industrial Ethernet Switches

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.

Temperature	**D**
Humidity	**B**
Vibration	**A**
EMC	**B**
Enclosure	**Required protection according to the Rules shall be provided upon installation on board**

Issued at **Hamburg** on **2023-01-04**

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

DNV local unit: **Hamburg – CMC North/East**

Approval Engineer: **Holger Jansen**

for **DNV**

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Joannis Papanuskas
Head of Section

Product description
Industrial Ethernet unmanaged/managed Switches – Value Line/Premium Line
The units are classed and approved for 12V to 45V DC supply voltage.

Unmanaged Switch – Fast Ethernet
- IE-SW-VL16-16TX
- IE-SW-VL16T-16TX

Managed Switch – Fast Ethernet
- IE-SW-VL05M-5TX
- IE-SW-VL05MT-5TX
- IE-SW-VL08MT-8TX
- IE-SW-VL08MT-6TX-2ST
- IE-SW-VL08MT-6TX-2SCS
- IE-SW-PL16M-16TX
- IE-SW-PL16MT-16TX

Managed Switch – Gigabit
- IE-SW-PL18M-2GC-16TX
- IE-SW-PL18MT-2GC-16TX

Application/Limitation
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.

Tests carried out
Applicable tests according to class guideline DNV-CG-0339, August 2021.
Applicable tests according to IACS Unified Requirements 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