

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Peripheral Equipment

with type designation(s)

HARTING RJ Industrial, Ha-VIS preLink®, Han® PushPull, har-port

Issued to

HARTING Electronics GmbH
Espelkamp, Nordrhein-Westfalen, Germany

is found to comply with

DNV GL 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 GL.

Temperature	D
Humidity	A
Vibration	A
EMC	B
Enclosure	IP20 or IP65/67

Issued at **Hamburg** on **2019-02-03**

This Certificate is valid until **2024-02-02**.

DNV GL local station: **Essen**

for **DNV GL**

Approval Engineer: **Maik Gagern**

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Arne Schaarmann
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.



Product description

Power, data and signal connectors

1. HARTING RJ Industrial Ethernet connection system (IP20 and Han 3 A)
 2. Ha-VIS preLink RJ45 Ethernet connection system
 3. Han® PushPull signal, Ethernet (RJ45 und SCRJ) and power connection system
 4. HARTING PushPull signal, USB, Ethernet (RJ45 und LC) and power connection system
- har-port RJ45 and USB Service Interfaces

Application/Limitation

Operating instruction of the manufacturer to be observed

Type Approval documentation

Tests carried out

Applicable tests according to Class Guideline DNVGL-CG-0339, Edition November 2016

Marking of product

The products to be marked with:

- device 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 at least every second year and at renewal of this certificate.

END OF CERTIFICATE