

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Conduit, Fitting, Cable Pipe, Box, Etc.

with type designation(s)
HF Splitter Box,

Issued to

Hans Følsgaard A/S
Køge, Denmark

is found to comply with

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

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2026-01-17**.

Issued at **Høvik** on **2021-01-18**

DNV GL local station: **Denmark CMC**

for **DNV GL**

Approval Engineer: **Nicolay Horn**

Marta Alonso Pontes
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.

Name and place of manufacturer

Zhejiang Qixing Electric Technology Co., Ltd.
8#, Pengxi East Road, Yongan Industrial Zone, Fuying
Street, Xianju, Taizhou, Zhejiang, China

Product description

Reefer Splitter box

Parts Description:

Voltage:	440 V, 3 ph + E
Current:	32 A
Ingress protection:	IP67
Impact protection:	IK10
Working Temperature:	-30°C - +60°C
Enclosure dimentions (WxHxD):	410x330x155 mm
Color of the box	RAL7032

Application/Limitation

Each receptacle is controlled by power button with LED lights to indicate the status of the outlet.

Each outlet is controlled by a Smart Reefer controller which runs as a 20A type D 10kA MCB.

Each receptacle is controlled by a "Smart Reefer Controller" which is monitoring the connection. The Smart Reefer controller will max restart by itself for 3 times in case of connection error.

Each "Smart Reefer Controller" is powered by a power button with LED light. The different light colors are indicating the status of the receptacles.

Electrical interlock for each receptacle. For other information see manufacturer documentation.

MSC.1/Circ.1352 should be taken into account when installing on a vessel if mandatory by the Flag Administration.

Type Approval documentation

Type tests in accordance with IEC 60730-1.

Marking of product

HF - Type designation - Reference 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.

Assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE