



TYPE APPROVAL CERTIFICATE

Certificate No:
TAE00001C8
Revision No:
1

This is to certify:

That the Pilot Device

with type designation(s)
Control and Signalling Units XB4, XD4-PA, XB5 and XD5-PA

Issued to
Schneider Electric Industries SAS
L'ISLE-D'ESPAGNAC, France

is found to comply with
DNV 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.

Issued at **Høvik** on **2023-01-09**

for **DNV**

This Certificate is valid until **2028-01-21**.

DNV local station: **France CMC**

Approval Engineer: **Nicolay Horn**

Frederik Tore Elter
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.



Name and place of manufacturer

Schneider Electric France
Zone Industrielle N° 3
L'Isle d'Espagnac, France

Schneider Electric AS
Cizovska 447
Pisek, Czech Republic

PT. Schneider Electric Manufacturing Batam
Jl. Beringin Lot 04, Muka Kuning, Batamindo Industrial Park
Batam-Kepulauan Riau, Indonesia

Product description

Control and signalling units XB4B.../ XB4F..., XD4-PA..., XALK...XB5B-.../ XB5F.../ XB5K.... and XD5-PA... with sub-units ZB4..., ZB5..., ZBE..., ZBV... ZBW..., ZBY...

Style 4: Chromium plated metal bezel

Style 5: Double insulated plastic bezel

Application/Limitation

Vibration class	A
Humidity class	B
Temperature class	D
Max voltage	600V

Type Approval documentation

Catalogues:

“Control and signalling units ø22 - Harmony® XB4 metal” issued August 2021.

“Control and signalling units ø22 - Harmony® XB5 Plastic” issued August 2021.

Test reports:

Schneider Electric test reports no. COF_8517-1, -2 and -3, undated.

UL Demko CB certificates nos. DK83825M1 and DK83997M1 dated 2021-11-29.

Schneider renewal test report list V3 dated 2022-09-29.

Tests carried out

Environmental test in accordance with DNV-CG-0339 including Humidity test, Vibration test, Temperature tests, Cold test, Thermal endurance test, Salt mist test. EMC tests in accordance with IEC60947-1.

Degree of protection (IP66 front side, IP20 back side) in accordance with IEC 60529.

Type tests in accordance with IEC 60947-5-1 & 4 including: Dielectric strength impulse withstand voltage, Electrical overload and endurance test, Short circuit test, Secureness and pull out, short circuit of built in transformers, Robustness of actuating system.

Marking of product

Schneider Electric – Type designation – Manufacturer's type 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