



TYPE CERTIFICATE

Certificate No.:
TC-DNV-SE-0439-03577-4

Issued:
2025-01-17

Valid until:
2027-01-17

Issued for:

Ice Detection System IDD.Blade

Specified in Annex 1

Issued to:

Wölfel Wind Systems GmbH + Co. KG

Max-Planck-Str. 15

97204 Höchberg, Germany

According to:

DNV-SE-0439:2021-10 Certification of condition monitoring

Based on the document:

CR-DNV-SE-0439-03577-4

Certification Report Ice Detection System IDD.Blade,
dated 2025-01-17

Changes of the system design, the production or the manufacturer's quality system are to be approved by DNV.

Hellerup, 2025-01-17

For DNV Renewables Certification

Christopher Harrison

Service Line Leader Component Certification



By DAkkS according DIN EN IEC/ISO 17065 accredited Certification Body for products. The accreditation is valid for the fields of certification listed in the certificate.

Hamburg, 2025-01-17

For DNV Renewables Certification

Peter Schmidt

Principal Project Manager

TYPE CERTIFICATE – ANNEX 1

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General

System name IDD.Blade
Manufacturer Wölfel Wind Systems GmbH + Co. KG

Hardware

Name Structural Noise Sensor SNS, Data Acquisition and Processing Unit DAPU
alternative:
DAPU based on PLCnext Technology

Data sheet Produktspezifikation IDD.Blade, SHMB-02-PS-IDD, Rev. 1
alternative:
Produktspezifikation IDD.Blade, SHMB-05-PS-IDD, Rev. 1
Produktspezifikation IDD.Blade – Optische SNS, SHMB-04-PS-IDD, Rev. 5

No. of sensors per blade ≥ 1

Software

Name SHMB
Version 05

Manuals

Inbetriebnahmeanleitung SHMB-04-Anleitung Inbetriebnahme, Rev. 2
Montage- und Wartungsanleitung SHMB-04 Anleitung Montage Wartung, Rev. 4

Interfaces

Rotor Blade