

# TYPE CERTIFICATE

Certificate No.:  
TC-DNVGL-SE-0439-04314-0

Issued:  
2018-10-18

Valid until:  
2020-10-19

Issued for:

## Ice Detection System BLADEcontrol Ice Detector (BID)

Specified in Annex 1

Issued to:

## Weidmüller Monitoring Systems GmbH

Else-Sander-Str. 8  
01099 Dresden  
Germany

According to:

## DNVGL-SE-0439:2016-06 Certification of condition monitoring

Based on the documents:

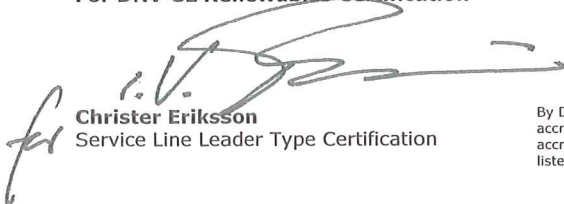
CR-CMS-DNVGL-SE-0439-04314-0

Certification Report Ice Detection System BLADEcontrol Ice Detector (BID), dated 2018-10-18

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

Hamburg, 2018-10-18

For DNV GL Renewables Certification

  
**Christer Eriksson**  
Service Line Leader Type 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, 2018-10-18

For DNV GL Renewables Certification

  
**Robert Kasch**  
Senior Project Manager

# TYPE CERTIFICATE - ANNEX 1

Certificate No.: TC-DNVGL-SE-0439-04314-0

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**General**

System name

BLADEcontrol Ice Detector  
(BID)**Hardware**

Measuring unit

HMU V2.7 / HMU V3.0

Number of channels per blade

2

Number of digital channels

-

Evaluation communication unit

ECU V5.1 / ECU\_V6.2

Vibration sensor type

BCA403b / BCA423

*alternative*

Strain sensor type

BCE101

**Software**

Name

cmrbl

Version

2.4.sqlite / 2.5.sqlite

*Robkas*