

ID-S-S 868 - Sensor

1061959

<https://www.phoenixcontact.com/us/products/1061959>

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Wireless ice and temperature sensor for wind turbine generators, self-adhesive, for mounting on rotor blades, tower or nacelle, communication with the ID-S-RT 868 wireless receiver via 868 MHz frequency band

Product description

The ID-S-S sensor is part of the Blade Intelligence rotor blade monitoring system for wind turbine generators (WTGs). The Blade Intelligence rotor blade monitoring system allows for recording and detailed analysis of typical measured values for lightning currents, temperature, ice thickness, and bending moments on the rotor of a WTG. It consists of the corresponding sensors, preassembled connecting cables, and a WIL-BI switchgear and controlgear assembly (as the evaluation unit).

Your advantages

- Wireless collection and transmission of measurement data
- Ice detection through impedance measurement
- Temperature measurement via integrated switching circuit
- Flexible design
- Simple mounting
- Autonomous operation via integrated solar cell

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1061959 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | DTHABA |
| GTIN | 4055626716367 |
| Weight per piece (including packing) | 9,000 g |
| Weight per piece (excluding packing) | 8,762 g |
| Country of origin | DE |

Technical data

Product properties

| | |
|--------------|--------|
| Product type | Sensor |
|--------------|--------|

Interfaces

Wireless

| | |
|--------------------|-----------------|
| Transmission power | 1 mW (minimum) |
| | 10 mW (maximum) |

Environmental and real-life conditions

Ambient conditions

| | |
|---|--|
| Ambient temperature (operation) | -40 °C ... 60 °C (Derating at <-25°C) |
| Ambient temperature (storage/transport) | typ. 0 °C ... 25 °C (Ambient light > 1000 lux) |
| | max. 0 °C ... 40 °C (Ambient light > 1000 lux) |
| Permissible humidity (operation) | 0 % ... 100 % |

EMC data

Electromagnetic HF field

| | |
|-----------------|--|
| Frequency range | 863 MHz ... 870 MHz (typical: 868 MHz) |
|-----------------|--|

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Classifications

ECLASS

ECLASS-13.0

27143137

ETIM

ETIM 9.0

EC000926

UNSPSC

UNSPSC 21.0

43201500

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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