WIL-LM-SNEXT-S - Sensor

1656690

https://www.phoenixcontact.com/gb/products/1656690

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Sensor for pulse measuring device, for real-time recording of surge currents and transient overvoltages at the rotor blade of a wind turbine generator. For lightning currents in the range 1 kA … 110 kA. App required for operation (see “Product description”).

Product description

The sensor is part of the Blade Intelligence rotor blade monitoring system product portfolio for wind turbine generators. The system essentially consists of sensors for ice detection, load monitoring, lightning current measurement, and structural health monitoring, which were specially developed for use on the rotor blade. The sensors can be combined individually. The sensor data is transmitted to a common evaluation unit via the IO-Link communication module. The evaluation unit is available as a ready-to-use switchgear and controlgear assembly (see accessories). For alternatives to the ready-to-use switchgear and controlgear assembly solution, please contact your Phoenix Contact subsidiary. The Blade Intelligence rotor blade monitoring system can also be reliably integrated into existing systems.

Your advantages

- Quick and easy startup
- Increased system safety through proactive monitoring of the rotor blade
- Predictable repairs thanks to early warnings in the event of problems
- Cost reduction by avoiding longer system downtimes
- Can be used in combination with other sensors from the Blade Intelligence product portfolio

Commercial data

Item number	1656690
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DTHABA
Product key	DTHABA
GTIN	4067923189652
Weight per piece (including packing)	1 kg
Weight per piece (excluding packing)	1 kg
Customs tariff number	85043129
Country of origin	DE

Technical data

Notes

Note regarding documentation	For further technical data, refer to the product documentation in the “Downloads” area
Notes on operation	An app that is subject to a fee is required to operate the product. You can purchase and download the app in the PLCnext Store.

Product properties

Product type	Sensor

Dimensions

External dimensions

Width / Height / Depth	210 mm / 101.8 mm / 29.2 mm

Material specifications

Material	Plastic

Cable/line

Cable entry

Connection method	M12 connector Screw connection

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 3000 m (Above sea level)

Approvals

UL data

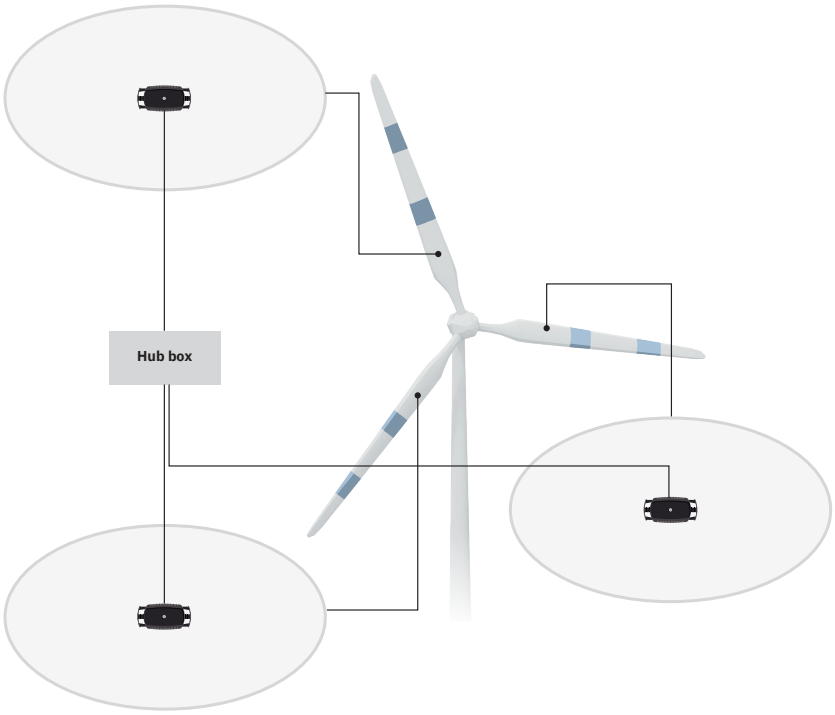
Max. permissible relative humidity (operation)	max. 95 %

Mounting

Mounting type	On lightning arrester cables

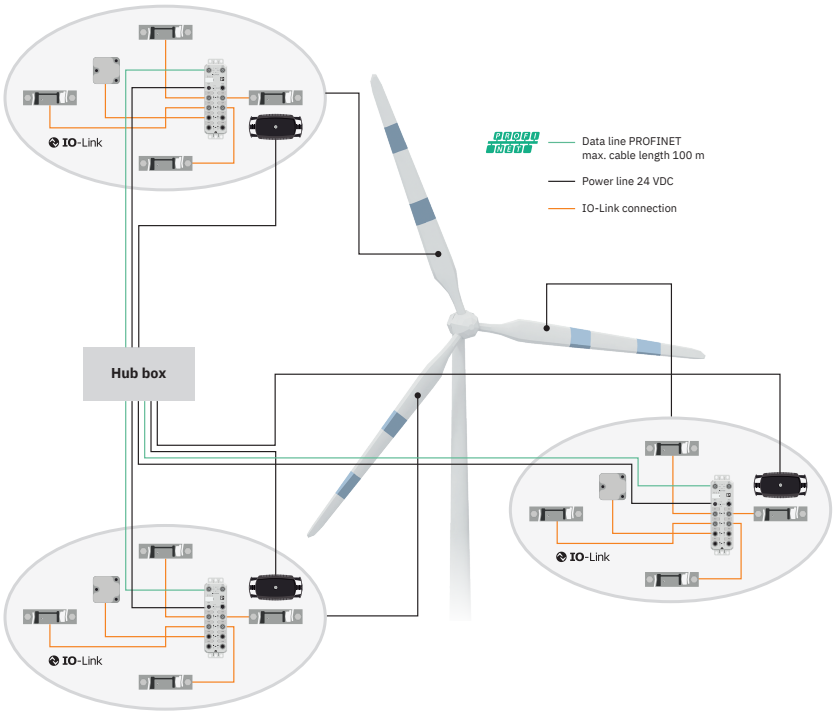
Drawings

Application drawing



Blade Intelligence: System topology with LM-SNEXT-S as an individual solution

Application drawing



Blade Intelligence: System topology with LM-SNEXT-S, RM-S-P, and SHM-P

Classifications

ECLASS

ECLASS-13.0	27143137
ECLASS-15.0	27143137

ETIM

ETIM 10.0	EC000926

UNSPSC

UNSPSC 21.0	43201500

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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