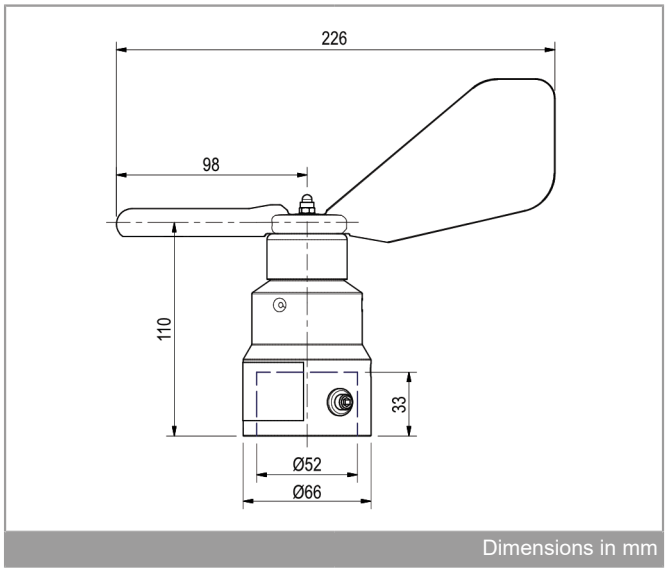
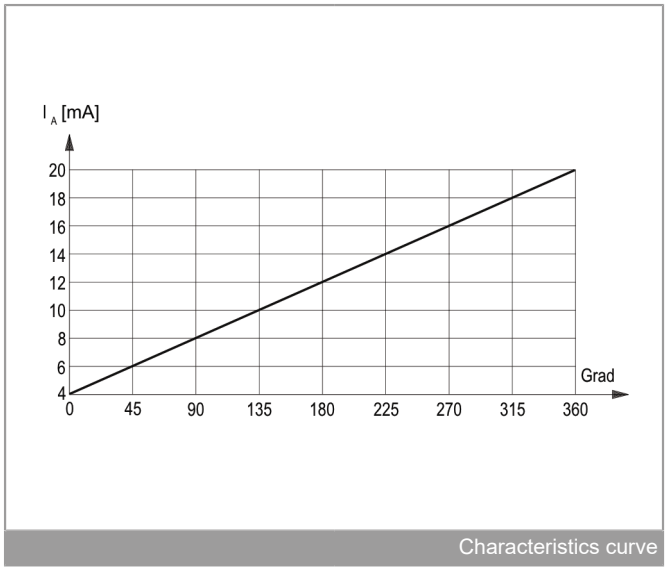
INT®30 OF Wind direction

INT 30 OF

Illustration similar. Scope of delivery may deviate.



Dimensions in mm



Characteristics curve

Application

The KRIWAN wind direction sensors are used for demanding wind direction recording in normal ambient temperature areas, for example:

- For monitoring of crane systems, ski lifts, and cable cars
- For energy optimization in wind turbines
- For blinds protection in building technology
- In hydrology and meteorology
- As weather station components in building and greenhouse regulation

Functional description

The KRIWAN wind direction sensor INT 30 OF records the current wind direction and transforms it contact-free into a linear output signal. The sensor is constructed to be weatherproof. Because of the self-regulating heater system, they can be used at temperatures as low as -40 °C.

The processing takes place separately via a measuring unit, a display unit, or in the hooked up regulating and monitoring system.

This KRIWAN wind direction sensor boasts the following features:

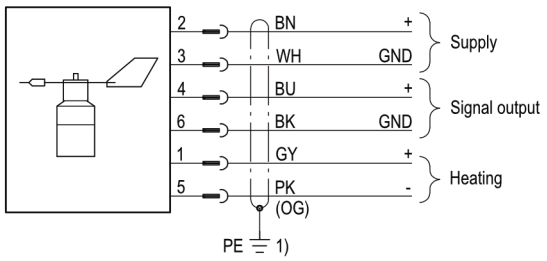
- Sturdy and reliable industrial design
- Low starting torque while highly resilient
- High accuracy
- Optimized power consumption by means of electronic heating regulation
- Easy installation
- Extended temperature range
- Integrated overvoltage protection
- $_{c}UL_{US}$ - type approval
- Maintenance-free
- Improved corrosion protection means that it can be used offshore

Order data

INT 30 OF Wind direction	13 N 750 S021
Further product information	See www.kriwan.com

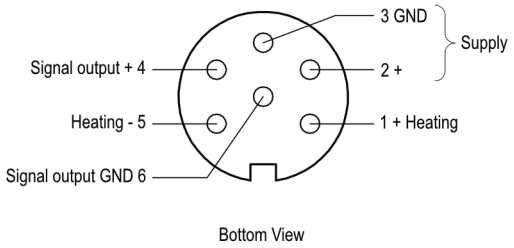
Replacement part

Replacement part kit, wind vane	**02 Z 123 S22**
Self-locking cap nut M4	**HM04009400**
Serrated washer J4,3	**HX04305600**
Aluminium cup, small	**HD06012**



1) Shielding grounded at control cabinet

Wiring diagram



Bottom View

Connector pin assignment

Safety instructions

The electrical connection must carried out by an electrician. The applicable European and national standards for connecting electrical equipment must be observed. We recommend a separate customer-supplied lightning protection installation, to avoid any damage or interruption of operation resulting from direct or indirect coupling during lightning strikes.

Technical specifications

Measuring principle	Contact-free, magnetic scanning system
Measuring range	0-360°
Accuracy	±2.5°
Resolution	<1°
Threshold wind speed	<1.0 m/s (ϑu=20 °C)
Connection	DC 24 V ±25 % Max. 30 mA polarity inversion protection
Signal output	4-20 mA
Signal availability	max. 2.5 s (from a voltage-free status)
Burden resistance = wire resistance + load resistance	R_{burden} ≤600 Ω
Connection type – Sensor – recommended connecting cable	 6-pin plug (M16) 6x0.5 mm², shielded 6-pin cable socket (M16) shieldable, e.g. Binder series 423
Permissible ambient temperature T_a	-40°C ≤ T_a ≤ +70°C
Permissible relative humidity	0-100 % rh
Stability	For wind speeds of 100 m/s (max. 30 min)
Heating – Type – Connection	 Self-regulating heater DC 24 V ±20 % 20 W SELV
Protection class on the basis of EN 60529	IP66 for compliant sensor installation
Mounting	Steel pipe mast max. $Ø_{outer}$ 50 mm min. $Ø_{inner}$ 37 mm
Dimensions	See dimensions in mm
Housing – Material – Corrosion resistance	 Aluminum anodized
Wind vane	
Weight	Approx. 500 g

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