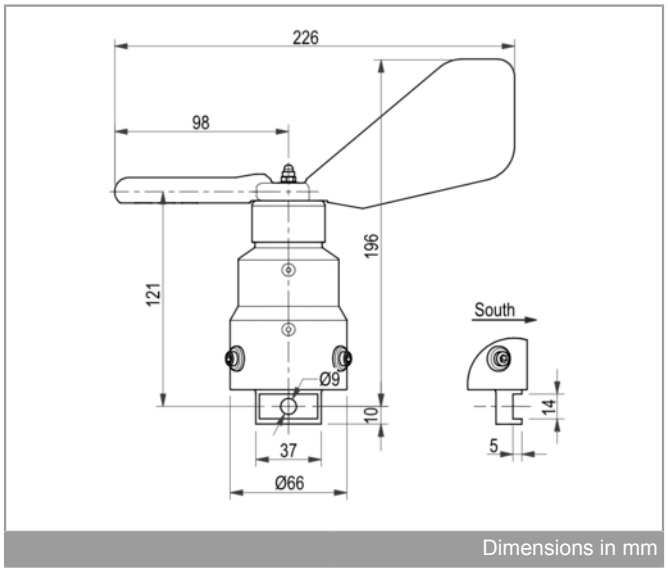
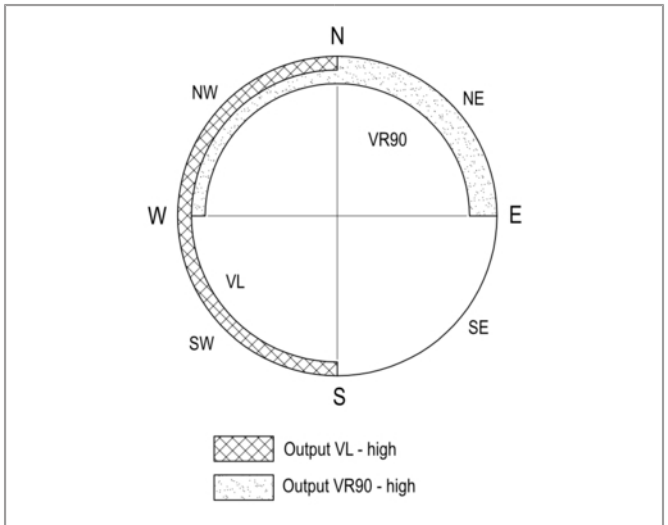
INT®30 B Wind direction

INT30 B

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, 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 INT30 B 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:

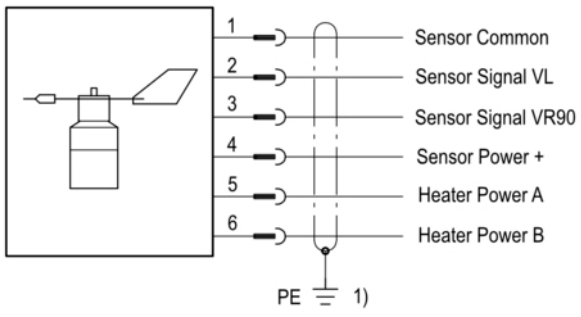
- Sturdy and reliable industrial design
- Low starting torque while highly resilient
- High accuracy
- Wear-free measurement value recording
- Optimized power consumption by means of electronic heating regulation
- Easy installation
- Extended temperature range
- Integrated overvoltage protection
- Shock- and shake-proof
- $_{c}UL_{US}$ - type approval
- Maintenance-free

Order data

INT30 B Wind direction	13 N 299 S022
Further product information	See www.kriwan.com

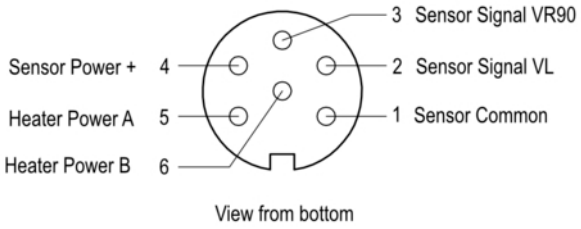
Replacement part

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



1)Shielding grounded at control cabinet.

Wiring diagram



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.

⚠ The surface of the wind vane can exceed 55 °C during heating operation.

Technical specifications

Measuring principle	Contact-free, magnetic scanning system
Measuring range	0-360°
Accuracy	±2.5°
Resolution	90°
Threshold wind speed	<0.4 m/s (ϑu=20 °C)
Connection	DC 24 V ±25 % Max. 55 mA
Signal output – Level, high – Level, low $U_{Supply\ voltage}$ = Supply voltage sensor	 2x Open-Collector PNP (source) $U_{Supply\ voltage}$ -1.5 V open collector
Signal availability	max. 2.5 s (from a voltage-free status)
Load resistance	≥1,2 kΩ
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...+70 °C With disconnected heater: the sensor is assumed to be free of snow and ice.
Permissible relative humidity	0-100 % rh
Stability	For wind speeds of 80 m/s (max. 30 min)
Heating – Type – Connection	 Self-regulating heater AC/DC 24 V ±20 % max. 20 VA SELV
Protection class on the basis of EN 60529	IP66 for compliant sensor installation
Mounting	See diagram for side flange mounting
Dimensions	See dimensions in mm
Housing – Material – Corrosion resistance	 Aluminum anodized
Wind vane – Material – Corrosion resistance	 Aluminum powder coated
Weight	Approx. 600 g
Testing basis	EN 61000-6-2, EN 61000-6-3, EN 61010-1
Approval	UL file no. E240032

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