INT30 M® Wind direction sensors

KRIWAN

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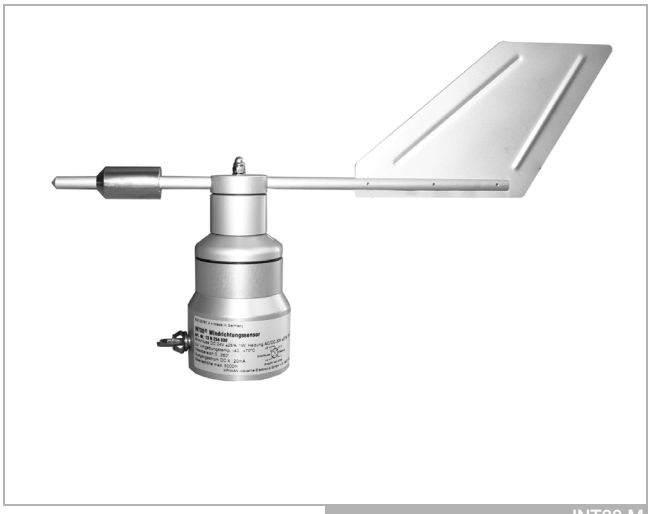

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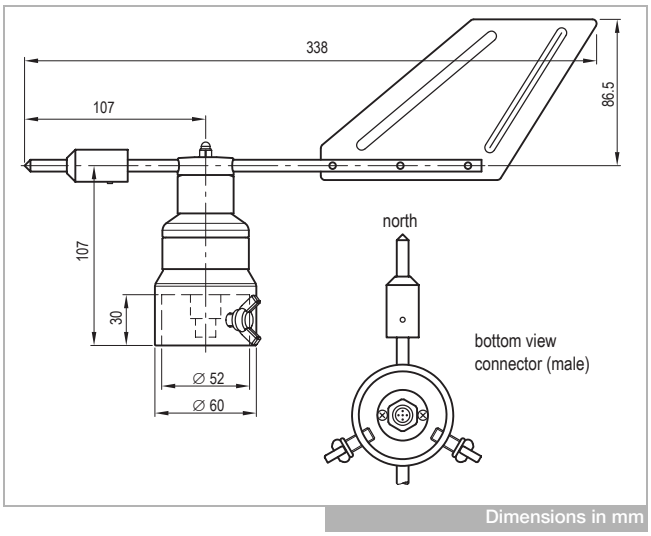
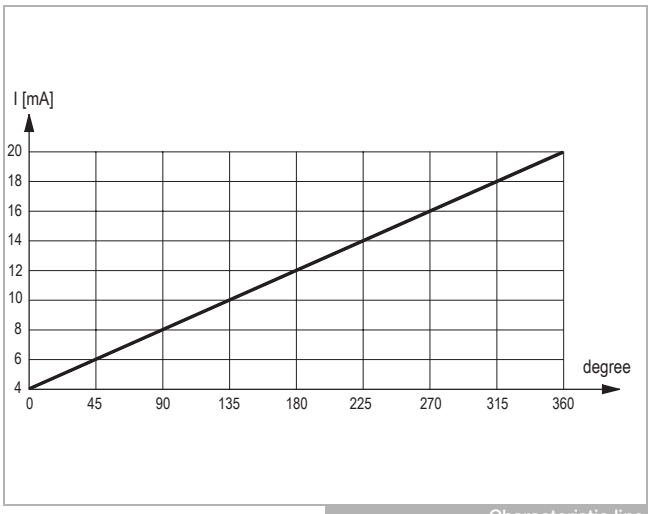


Dimensions in mm



Characteristic line

Application

KRIWAN wind direction sensors are used for the demanding recording of the wind direction, e.g.

- For monitoring crane installations, ski lifts and cable railways
- Wind power generators for energy-optimisation
- In building technology for building protection
- In hydrology and meteorology
- As a weather station component for the building and greenhouse control

Functional description

The KRIWAN-Wind direction sensor records the current wind direction and converts it without contacting it into a linear output signal. The sensor is designed to withstand storms and weather. The built-in self-regulating heating allows it to be used at temperatures down to -40°C. The evaluation is carried out separately with a measuring device, a display instrument or in the connected control and monitoring system.

The following features characterise this KRIWAN wind direction sensor:

- Robust and reliable industrial design
- Low starting torques at high load capacity
- Outstanding precision
- Wear-free recording of measurement data
- Optimised power requirement through electronic heater control
- Simple installation
- Extended temperature range
- Integrated overvoltage protection
- Impact and vibration-resistant
- $_{c}UL_{US}$ - approval
- Maintenance free

⚠ The unit must be connected by trained electrical personnel. All valid European and national standards for connecting electrical equipment must be observed. To avoid any consequential damage or operational failure, through direct or indirect excitation in the event of lightning strikes, we recommend that a separate lightning protection device be fitted by the customer.

See overleaf for technical specifications

Order data

INT30 M wind direction 144WR; 4-20mA; mast mounting; 5-pin plug; heating; UL	**13 N 291 S101**

Spare parts

Wind vane	**02 Z 123 S21**
VA-wing screws, M8x16mm	**HS08016600**
Self-locking cap nut M4	**HM04009400**
Serrated washer J4.3	**HX04305600**
Clamp connector female (M12) 5-pin	**FA04106**
Connecting cable 8m with clamp connector female (M12) 5-pin	**02 Z 291 S21**

Product group N

Edition: 710.00383.1

Technical changes reserved

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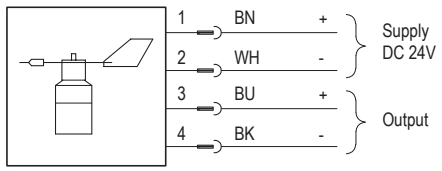
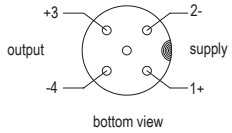


Wiring diagram



Connector assignment

Technical specifications

Measuring principle	Noncontact, magnetic scanner
Measuring range	0-360°
Accuracy	±2.5°
Resolution	144 stages
Start-up speed	<0.4m/s (υ_u=20°C)
Supply	DC 24V ±25% max. 1A
Signal output	DC 4-20mA
Signal availability	Max. 2.5s (from voltage-free state)
Load resistor = cable + load resistor	R_{Load} ≤600Ω
Connection type	5-pin plug (M12)
Permitted ambient temperature T_A	-40...+70°C Heating not connected: snow and ice free sensor required.
Permitted rel. humidity	0-100% r.h.
Strength	For wind speed of 80m/s (max. 30min)
Heating	Automatic heating controller, max. 20W
Protection class based on EN 60529	IP64 for intended use sensor mounting
Mounting	Steel tube mast max. $\varnothing_{exterior}$ 50mm min. $\varnothing_{interior}$ 37mm
Dimensions	Refer to dimensions in mm
Housing material	Aluminium
Wind vane	Aluminium, brass nickel plated
Corrosion resistance	Seawater-resistant alloy
Weight	Approx. 500g
Check base	EN 61000-6-2 EN 61000-6-3 EN 61010-1
Approval	UL File No. N.N.

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