

INT[®]10 OF Anemometer



Application

KRIWAN anemometers are employed for demanding wind speed measurements, e.g.

- For the monitoring of crane installations, 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 anemometer INT10 OF records the actual wind speed 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 anemometer boasts the following features:

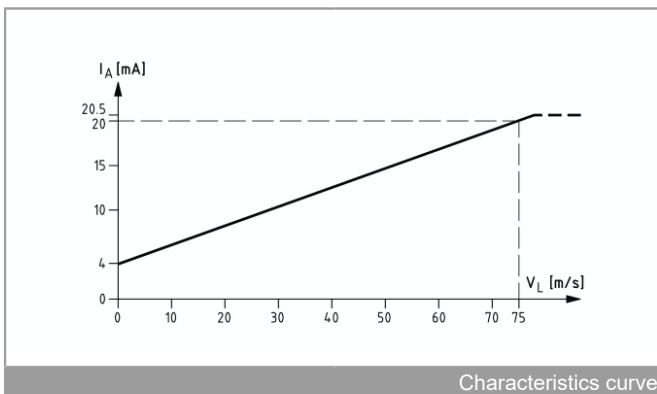
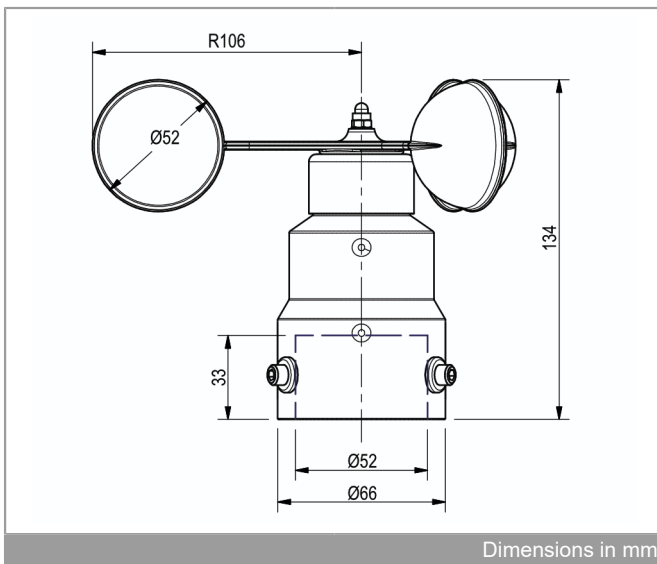
- Robust and reliable industrial design
- Low starting torque while highly resilient
- High accuracy
- Wear-free measurement value recording
- Optimized power consumption by means of electronic heating regulation
- Easy to install
- Extended temperature range
- Integrated overvoltage protection
- Shock and shake-proof
- cULUS - type approval
- Maintenance-free
- Improved corrosion protection means that it can be used offshore

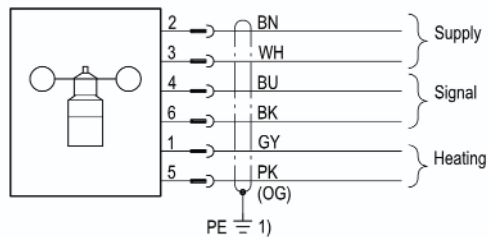
Order data

INT10 OF Anemometer	13 N 700 S022
Further product information	See www.kriwan.com

Replacement part

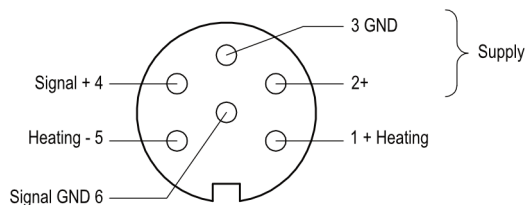
Self-locking cap nut M4	HM04009400
Serrated washer J4,3	HX04305600
Aluminium cup, small	HD06012





1) Shielding grounded at control cabinet

Wiring diagram



Bottom view

Connector pin assignment

Safety instructions



The electrical hook up must be performed 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.



CORAME SAS
MESURE-CONTROLE-AUTOMATISME

Tél: ROUEN 02 35 59 62 50 / CAEN 02 31 35 76 45
www.corame.fr info@corame.fr

Technical specifications

Measuring principle	Contact-free, magnetic scanning system
Measuring range	0-75 m/s
Accuracy	±0.5 m/s (VL≤35 m/s); 3 % from measurement value (speed>35 m/s)
Resolution	<0.1 m/s
Threshold wind speed	<1.0 m/s (θu=20 °C)
Connection	DC 24 V -25...+50 % max. 30 mA polarity inversion protection
Signal output	4-20 mA
Signal availability	max. 2.5 s (from a voltage-free state)
Input impedance	R _{load} ≤600 Ω = wire resistance + load resistance
Connection type	– Sensor: 6-pin plug (M16) – recommended hook up cable: 6x0.5 mm ² , shielded 6-pin cable socket (M16) shieldable, e.g. Binder series 423
Permissible ambient temperature T _a	-40°C ≤ T _a ≤ +70°C With disconnected heater: the sensor is assumed to be free of snow and ice.
Permissible relative humidity	0-100 % rh
Solidity	For wind speeds of 100 m/s (max. 30 min)
Heating	– Type: Self-regulating heater – Connection: DC 24 V ±20 % 20 W SELV
Protection class on the basis of EN 60529	IP66 for compliant sensor mounting
Mounting	Tubular steel mast max. Ø _{outer} 50 mm min. Ø _{inner} 37 mm
Dimensions	See dimensions in mm
Housing	– Material: Aluminum – Corrosion resistance: anodized
Anemometer cup	– Material: Aluminum – Corrosion resistance: Ceramic coated
Weight	Approx. 400 g

KRIWAN Industrie-Elektronik GmbH

Allmand 11

74670 Forchtenberg

Deutschland

info@kriwan.com

phone: (+49) 7947 822 0

www.kriwan.com

