

# INT30 BA® Wind direction

## INT30 BA®



INT30 BA

### Application

KRIWAN Wind direction sensors of the Building Automation Series are employed everywhere where the requirement profile does not necessarily require the implementation of highest-quality sensors and where you can fall back on the reliable properties of the KRIWAN wind sensors at the same time.


Areas of application include wind measurement in building technology.

### Functional description

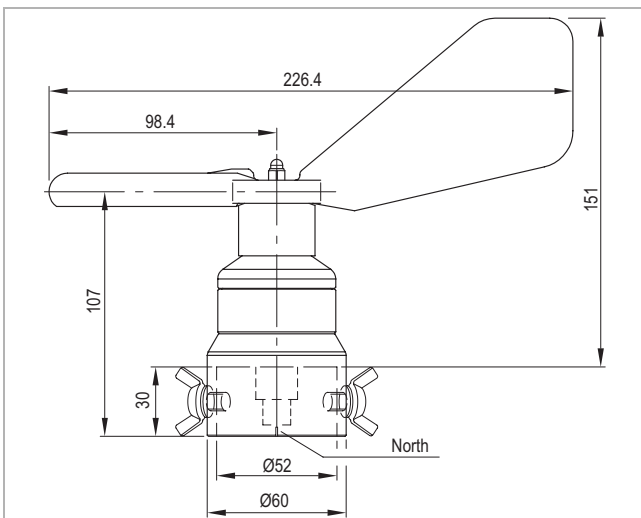
The KRIWAN-Wind direction sensor INT30 BA records the current wind direction and converts it without contacting it into a linear output signal. The sensor is designed to withstand storms and weather. The built-in self-regulating heating allows it to be used at temperatures down to -40°C.

The evaluation is then conducted separately using a measuring device, a display instrument, or the connected control and monitoring system. The following features characterise this KRIWAN-wind direction sensor:

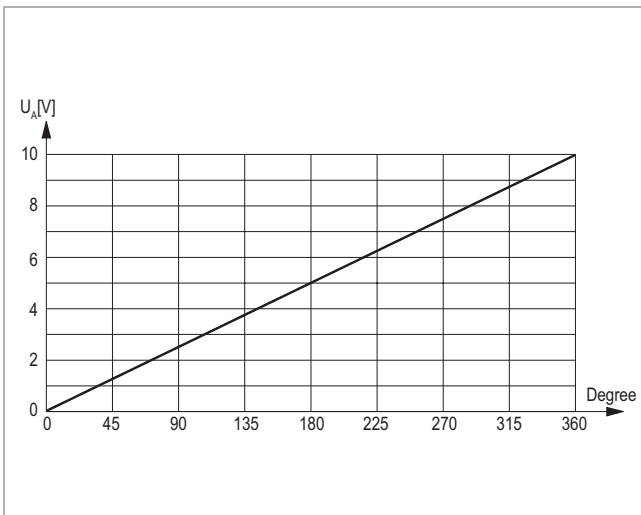
- Sturdy and reliable design
- Low starting torque, high strength
- High accuracy
- Wear-free measurement
- Optimised power requirement through electronically regulated heating
- Easy installation
- Extended temperature range
- Integrated overvoltage protection
- $\circ$ UL<sub>US</sub> - certified
- 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 back side for further specifications



Dimensions in mm

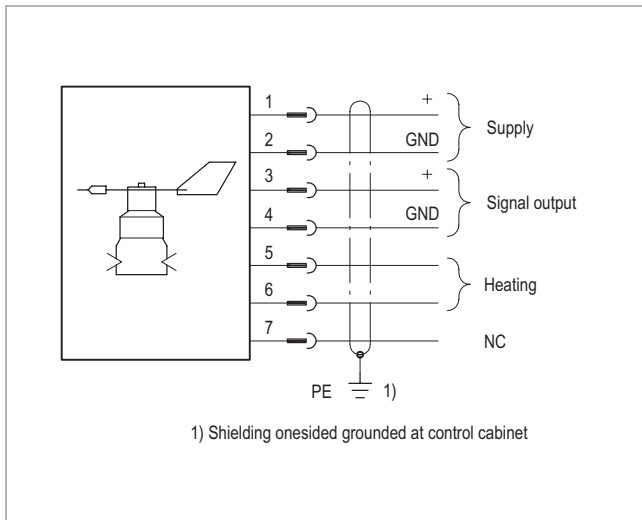


Characteristic line

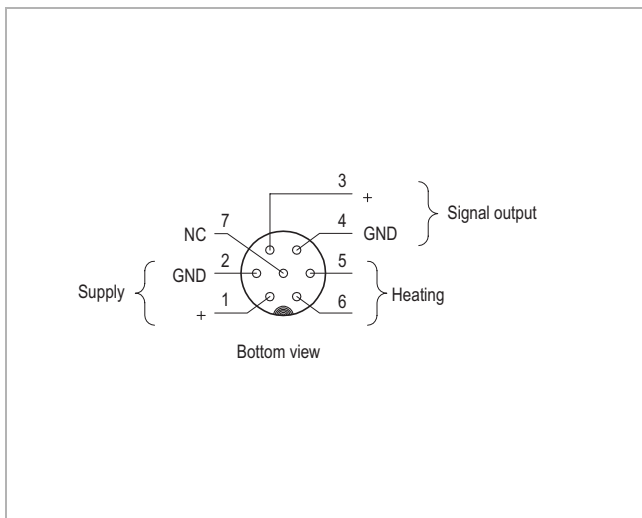
Technical changes reserved

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Wiring diagram



Pin assignment

### Technical specifications

Measuring principle	Contact-free magnetic scanning system
Measuring range	0-360°
Accuracy	±2.5°
Resolution	<1°
Start-up speed	<0.5m/s ( $\vartheta_u=20^\circ\text{C}$ )
Supply	DC 24V ±25% Max. 10mA Reverse polarity protection
Signal output	DC 0-10V
Signal availability	Max. 2.5s (from voltage-free state)
Load resistor	≥10kΩ
Connection type	
- Sensor	7-pin plug (M16)
- Recommended connecting cable	6x0.5mm <sup>2</sup>
Permissible ambient temperature T <sub>A</sub>	-40...+70°C When heating is not connected: Snow and ice-free sensor is prerequisite.
Permissible relative humidity	0-100% RH
Stability	For wind speed of 60m/s (max. 30min)
Heating	
- Type	Autonomously controlled heating
- Connection	AC/DC 24V ±20% Max. 20VA SELV
Protection class according to EN 60529	IP54 if sensor is assembled in the specified manner
Mounting	Steel mast Max. $\varnothing_{\text{outer}}$ 50mm Min. $\varnothing_{\text{inner}}$ 37mm
Dimensions	See dimensions in mm
Housing	
- Material	Aluminium
- Corrosion resistance	Anodised
Wind vane	
- Material	Aluminium
- Corrosion resistance	Powder-coated
Weight	Approx. 450g
Check base	EN 61000-6-2, EN 61000-6-3, EN 61010-1
Approval	UL file no. E240032

### Order data

INT30 BA Wind direction	<b>13 N 550</b>
Accessories and application information	see <a href="http://www.kriwan.com">www.kriwan.com</a>

### Spare parts

Wind vane	<b>02 Z 123 S22</b>
VA-wing screws, M8x16mm	<b>HS08016600</b>
Self-locking cap nut M4	<b>HM04009400</b>
Serrated washer J4.3	<b>HX04305600</b>
Cable socket (M16) 7-pin	<b>FA04114</b>

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