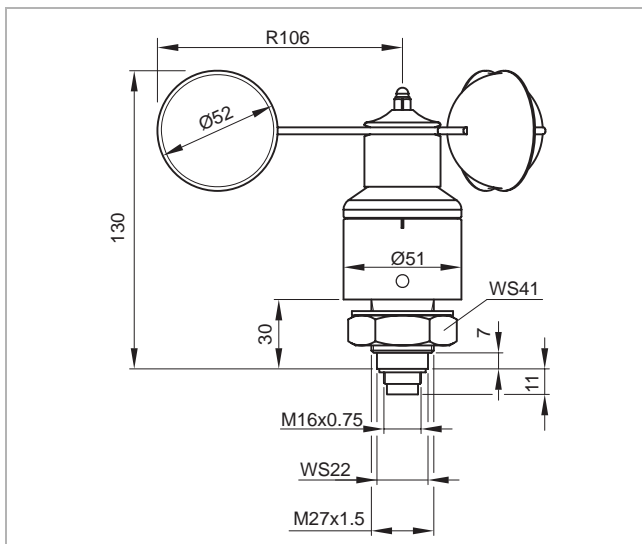


# INT10® Anemometer

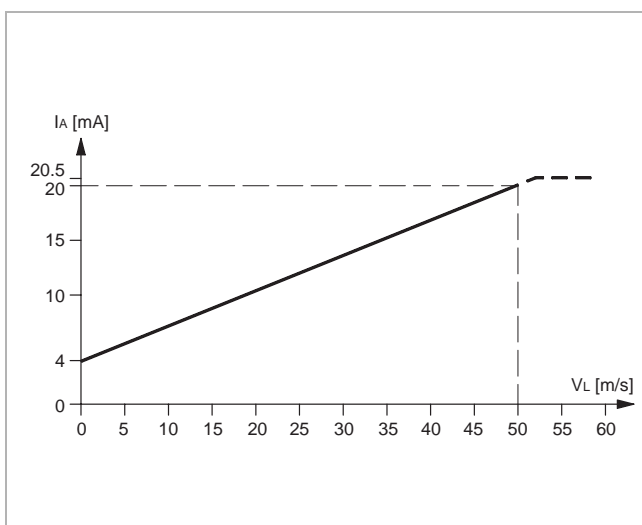
INT10®



INT10 with central mounting



Dimensions in mm



Characteristic line

## Application

KRIWAN anemometers are used for the demanding recording of wind speed, 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 INT10 anemometer records the current wind speed and converts it into a linear output signal without contact. The sensor is storm-proof and weather-proof. The autonomously controlled heater enables application at temperatures down to  $-40^{\circ}\text{C}$ . The evaluation is then carried out separately with a measuring device, a display instrument or in the connected control and monitoring system. The following features characterise this KRIWAN anemometer:

- 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
- 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.

## Order data

INT10 Anemometer 0-50m/s; 4-20mA;  
Central mounting; plug; heating

13 N 219 S51

## Spare parts

Spare parts package rotor  
(rotor, cap nut, serrated washer)

02 Z 160

Hexagon nut M27x1.5

HM27002400

Serrated washer J28

HX28014600

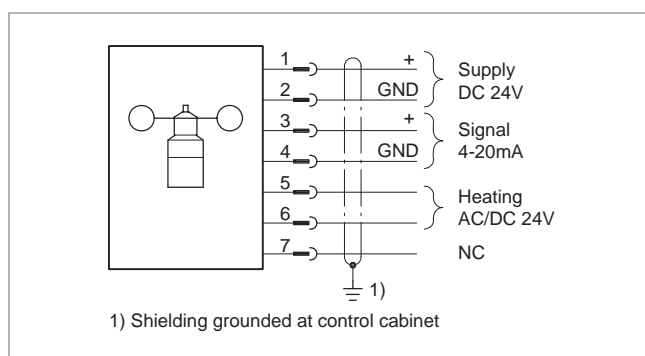
Clamp connector female (M16) 7-pin

FA04114

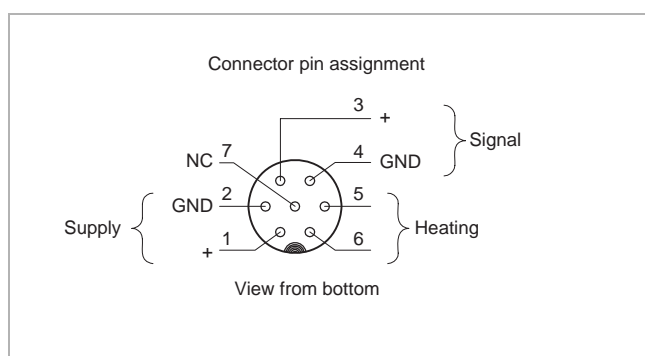
Technical changes reserved

# INT10® Anemometer

INT10®



Wiring diagram



Connector assignment

## Technical specifications

|  |  |
|--|--|
| Measuring principle                      | Noncontact, magnetic scanner   |
| Measuring range                          | 0-50m/s  |
| Accuracy                                 | ±0.5m/s  |
| Resolution                               | <0.1m/s  |
| Start-up speed                           | <0.4m/s ( $\vartheta_u = 20^\circ\text{C}$ )                             |
| Supply                                   | DC 24V ±25%, max. 30mA<br>reverse-polarity protection                    |
| Signal output                            | DC 4-20mA<br>limited to 20.5mA   |
| Signal availability                      | Max. 2.5s<br>(from voltage-free state)                                   |
| Load resistor<br>= cable + load resistor | $R_{\text{Load}} \leq 600\Omega$   |
| Connection type                          | 7-pin plug (M16)   |
| Permitted ambient temperature            | -40...+70°C<br>Heating not connected: snow and ice free sensor required. |
| Permitted rel. humidity                  | 0-100% r.h.  |
| Strength                                 | For wind speed of<br>80m/s (max. 30 min)                                 |
| Heating                                  | Automatic heating controller,<br>AC/DC 24V ±25%,<br>max. 20VA SELV       |
| Protection class acc. to EN 60529        | IP64 for intended use sensor<br>mounting                                 |
| Mounting                                 | Central mounting M27   |
| Dimensions                               | Refer to dimensions in mm  |
| Housing material                         | Aluminium  |
| Rotor                                    | Aluminium  |
| Corrosion resistance                     | Seawater-resistant alloy   |
| Weight                                   | Approx. 400g   |
| Check base                               | EN 61000-6-2<br>EN 61000-6-3<br>EN 61010-1                               |
| Approval                                 | UL File No. N.N.   |

Technical changes reserved