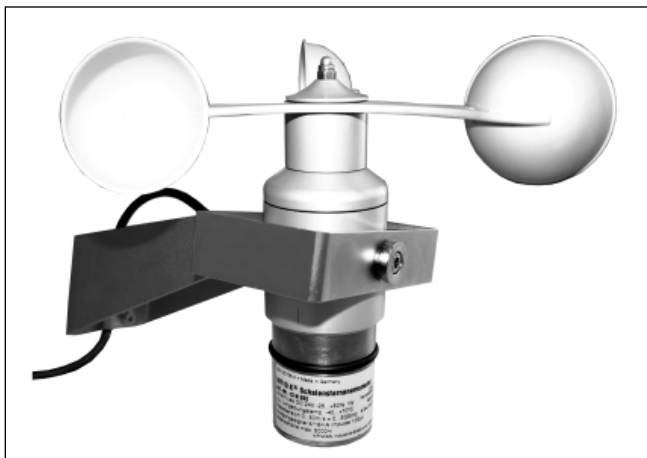


# INT10 K Pendulum vane anemometer with pulse output



INT10

## Application:

INT10 K vane anemometers are used for recording and monitoring wind speed, e.g. for mobile

cranes and they also protect man and machine.

## Functional description:

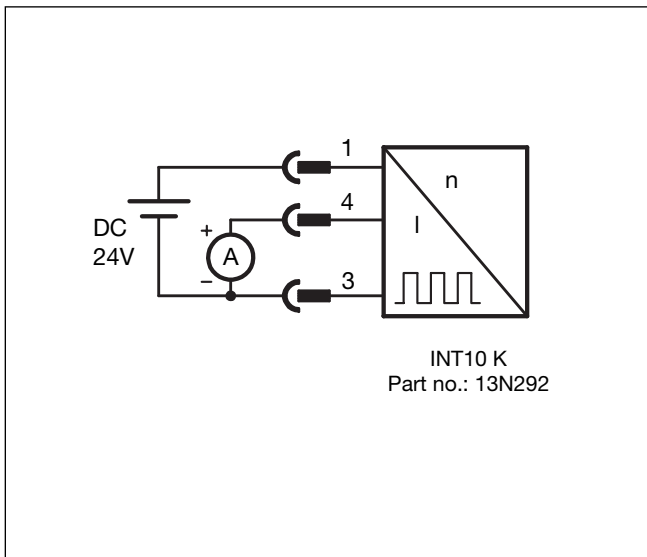
The INT10 K provides a pulse signal 4/18mA. Evaluation is conducted separately over the vehicle electronics, the signal is coupled to the customer's bus coupler on the LSB\* and transmitted to the evaluation unit in the cab. The sensor is mounted in a pendulum bearing on the customer's crane boom so that it automatically adopt the vertical position at boom positioning 0...85°.

eters excel on account of the following features:

- robust industrial design, specified for automotive usage
- low starting torques at high load capacity
- outstanding precision
- wear-free recording of measurement data
- pendulum design for automatic vertical alignment
- extended temperature range
- overvoltage protection
- impact and vibration-resistant
- UL / CSA approval
- maintenance free

\* Liebherr-System-Bus

This KRIWAN vane anemom-



Connection diagram



Electrical connection to be conducted by skilled personnel only. All valid 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.

## Ordering information

See overleaf for technical specifications

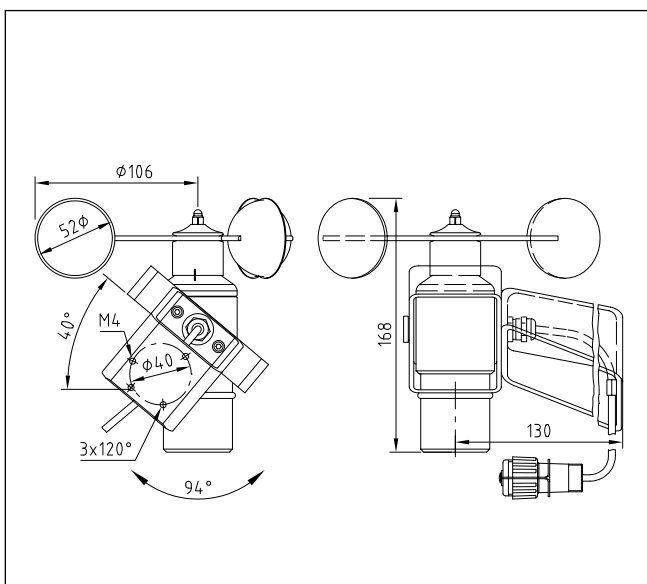
INT10 K vane anemometer  
0...50m/s, 3m connection cable  
and plug

**13 N 292**

## Spare parts:

Vane assembly

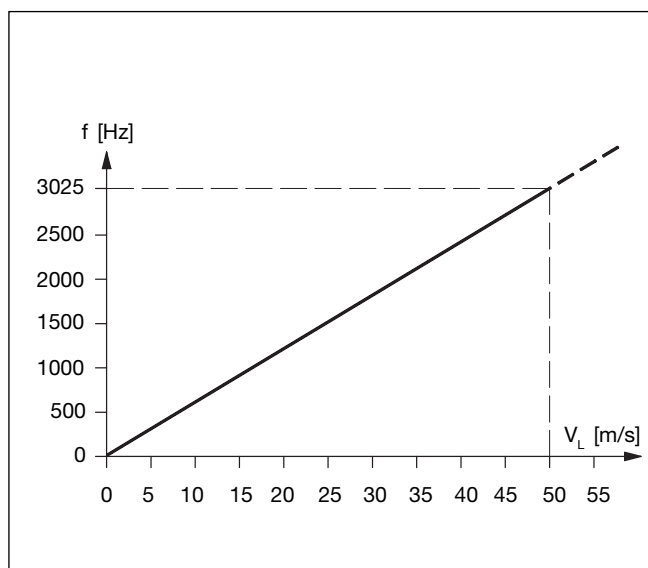
**HO0200**



Dimensions in mm

Subject to technical modifications without notice.

# INT10 K Pendulum vane anemometer with pulse output



Characteristic line

## Technical data

Measuring principle	noncontact, magnetic scanner
Measuring range	0...50m/s
Signal output	0...50m/s = 0...3025Hz 4/18mA pulse, 100 $\mu$ s $\pm$ 20 $\mu$ s short-circuit-proof against $\pm$ Low level = 4mA $\pm$ 1mA High level = 18mA $\pm$ 1mA
Accuracy	$\pm$ (10% from measurement +0.5m/s) at 0...30m/s
Start-up speed	<1m/s
Signal availability	max. 2.5s (from voltage-free state)
Ambient temperature range	-40...+70°C, sensor freedom from snow and ice assumed (-25...+70°C for connector)
Permissible rel. humidity	0...100% rel. hum.
Strength	for wind speed of 80m/s (max. 30min)
Supply	DC 24V +50/-25%, reverse-polarity protection
Type of connection	cable, 3x0.25mm <sup>2</sup> , 3m with connector (Manufacturer Schaltbau M16)
Cable material	Polyurethane sleeve insulation Thermoplastic elastomer lead insulation
Load resistor = Cable plus load resistor	$R_{Load} \leq 600\Omega$
Protection class according to EN 60529	IP64 for conventional mounting
Mounting	Mounted at side in line with Liebherr specification 6914 046 08, sheet 7
Dimensions	170x153mm
Housing	Aluminium and steel
Vane	Aluminium
Corrosion resistance	Seawater-resistant
Weight	1,700g
Quality assurance	ISO 9001:2000
Approval	UL File No. 240032
Air and creepage distances	Insulation group C according to EN 60664-1 / VDE0110
Miscellaneous	Flame-retardant plastics as under UL-94 HB and UV-stabilised.
Reliability	MTBF (for $T_{amb}$ 25°C) 30000h
Failure rate	< 0,5%

Subject to technical modifications without notice.