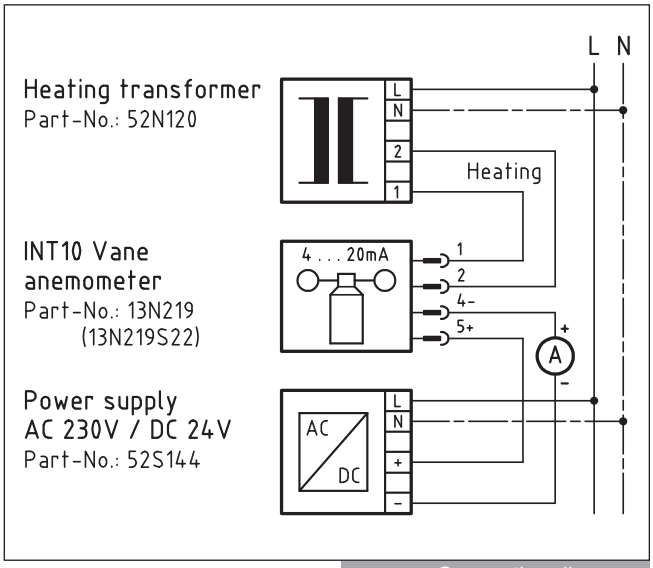
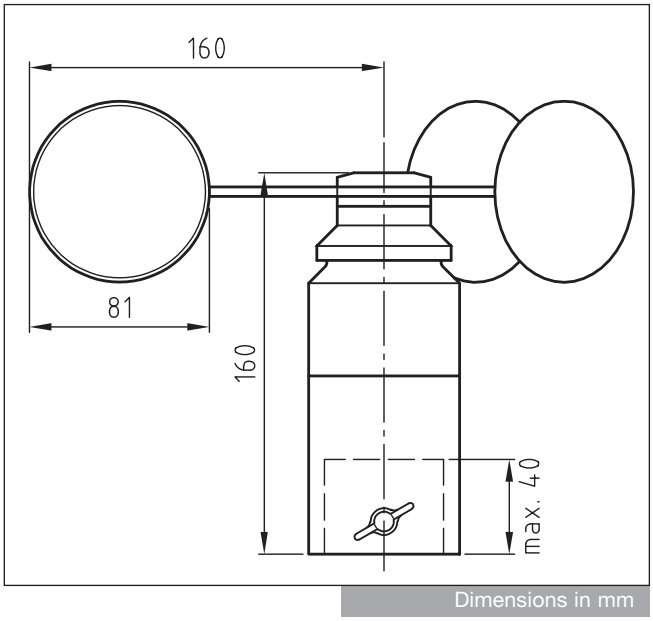
INT10® Vane anemometer

0...40 (45)m/s = DC 4...20mA

INT10



Connection diagram



Dimensions in mm

Application:

Vane anemometers are used for measuring and monitoring wind speed, e.g. for monitoring crane installations, ski lifts and cableways, wind power stations, building management systems, sunblind protection, weather stations and for greenhouse control.

Functional description:

The KRIWAN vane anemometer has a storm-proof and weather-proof design. The built-in self-regulating heater allows it to be used down to -30°C. The INT10 supplies a uniform signal output of 4...20mA.
This is evaluated separately in a measuring instrument, a display instrument or in a building management system. The device can easily be fixed to a mast with the wing nuts provided.
All KRIWAN vane anemometers are distinguished by the following features:

- heavy-duty industrial design
- fixing without tools
- extended temperature range
- surge voltage protection
- maintenance-free

⚠ The unit must be connected by trained electrical personnel. All valid standards for connecting electrical equipment must be observed. We recommend that the user provide a separate lightning protection system on site to avoid consequential damage or failures due to direct or indirect coupling by lightning strikes.

Ordering information:

See overleaf for technical data

INT10 Vane anemometer	
Plug connector	
- 0...40m/s	**13 N 219**
- 0...45m/s	**13 N 219 S22**
Power supply	**52 S 144**
Heating transformer	**52 N 120**
Surge voltage protection	
Lightning protection module	
- heater	**HH11029**
Lightning protection module	
- 20mA output	**HH11028**
Base for accommodating a lightning protection module	**HH11025**

Spare parts:

Set of cups (3 pcs.)	**02 N 221**
VA wing nut, M8 x 16	**HS08016600**
Connector plug, 5-pin	**FA04000**

Subject to technical modifications without notice

Product group N

Edition: 690.00178.2

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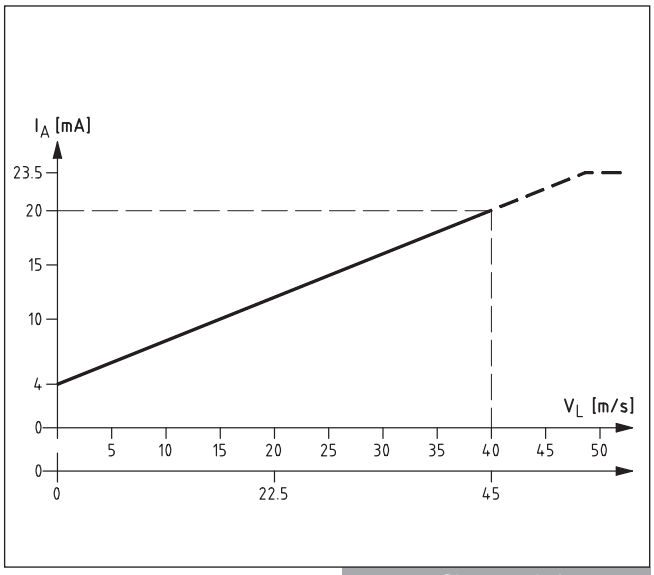
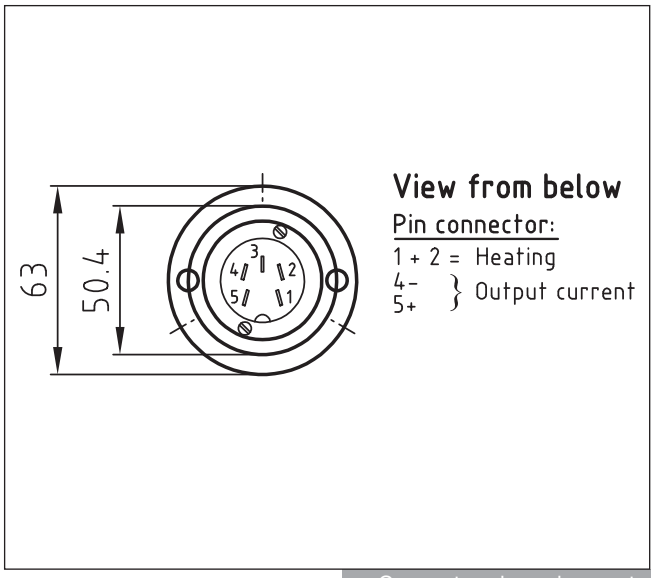


Characteristic curve



Connector pin assignment

Technical data

Supply	DC 24V ± 25% 1W
Ambient temperature range	-30...+60°C
Redidual ripple connection vltg.	< 1Vss
Perm. relative humidity	0...100%
Signal output	0...40 (45)m/s = DC 4...20mA
Max. output current	< 24mA
Start-up value	approx. 1.5m/s
Max. wind speed	60m/s
Setting time (10...90%)	1s
Output	
Load resistance $R_{tot.}$	0...380Ω $U_N \geq 18V$
(R_{line} + R_{load})	0...500Ω $U_N \geq 20V$
	0...700Ω $U_N \geq 24V$
Max. cable length	200m, min. 0.75mm²
Linearity error	< 0.15%
	(at U_N, ϑ_u = 23°C)
Accuracy	± 10% from final value
Temp. influence -40...+70°C	0.5% / 10K form final value
PTC heater	self-regulating
Heater	AC/DC 50/60Hz 30V ± 20%
	typical 10VA, max. 25VA
Mounting	tubular steel mast Ø 48mm
Protection class acc.	IP54 vertical installation
to EN 60529	(mast mounted)
Dimensions	Ø 63 x 160mm
Mast fastening	3 wing nuts M8x16mm
Housing	AlMg Si 1 F32, natural colour
Cup	PA6 GF30
Weight	approx. 1.2kg

Technical data power supply

Power supply for INT10 vane anemometer installed in plastic housing:

Supply	AC 50/60Hz 230V ± 10% 5VA
Output	DC 24V ± 20%, 1.2W
Protection class acc.	with terminal cover: IP20
to EN 60529	without terminal cover: IP00
Mounting	snap-on 35mm standard rail acc. to EN 50022 or screw-mounted
Dimensions	87 x 40 x 110mm high
Weight	approx. 400g
Part-No.	**52 S 144**

Technical data heating transformer

Heating transformer for INT10 vane anemometer installed in plastic housing:

Supply	AC 50Hz 230V ± 10% 50VA
Output	AC 50Hz 30V, 30VA
Protection class acc.	
to EN 60529	IP54
Mounting	screw-type
Dimensions	125 x 125 x 75mm
Weight	approx. 1.3kg
Part-No.	**52 N 120**

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