

# Wind Speed Sensor

GROUP 4	WIND
NO.	<b>4036.0000</b>
VERSION / DATE / NAME	02 / 02. 2018 / Zi



## TECHNICAL DATA

<b>Measuring method:</b>	Magnetically, contact-free
<b>Measuring range:</b>	0.2...50 m/s
<b>Max. load:</b>	60 m/s
<b>Threshold:</b>	<0.3 m/s
<b>Accuracy:</b>	±0.3 m/s; >15 m/s 2 % FS
<b>Power supply:</b>	12...28 VDC/VAC; < 1500 mA with heating
<b>Heating:</b>	max. 42 W, electronically-controlled
<b>Data output:</b>	0...10 V or 4...20 mA
<b>Dimensions:</b>	cup assembly Ø: approx. 224 mm height: 270 mm
<b>Weight:</b>	approx. 300 g
<b>Installation:</b>	anchor point Ø 25, Ø 28 resp. Ø 30 mm
<b>Connection:</b>	IP 67-connector with 5 contacts
<b>Operating temp.:</b>	-40...+70 °C
<b>Protection class:</b>	IP 55
<b>Suitable for data loggers:</b>	COMBILOG 1020.2000 1022.2000

## SENSOR TYPE 4036, WIND SPEED

Cup anemometer with Hall Array Magnetic Encoder.

### DESCRIPTION

The wind speed sensor type 4036 serves for transmission of electrically measured values of the wind speed. It is designed for operation in meteorology and environmental protection, e.g. automatic weather stations, at airports, wind power plants, at industrial sites, for mobile measuring systems etc.

The instrument's rugged construction, its dust and water repellent surface and its cups of polypropylene as well as the high performance heating enable heavy duty applications like wind energy measurement or operation under severe climatic conditions.

## ORDERING CODE

### WIND SPEED SENSOR

heated 0...10 V (Supply 20...28 VDC/VAC)	<b>4036.1000</b>
heated 4...20 mA (Supply 12...28 VDC/VAC)	<b>4036.1400</b>

## OPERATING INSTRUCTIONS

### INSTALLATION

The wind speed sensor has to be placed at a suitable height (for example 10 m for meteorological measurement of the ground wind). There is a number of tilting masts of different heights from 5 to 15 m available for this purpose. Lattice masts up to 80 m height, various telescopic masts and various adapters can be supplied (refer to product group 9).

Technical data are subject to change!



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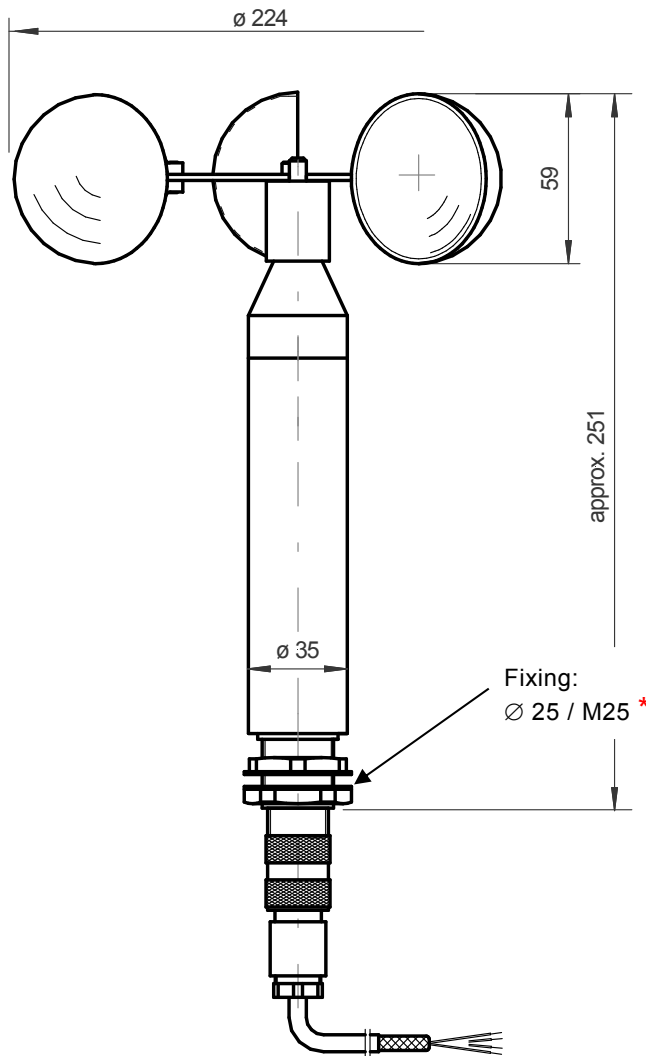
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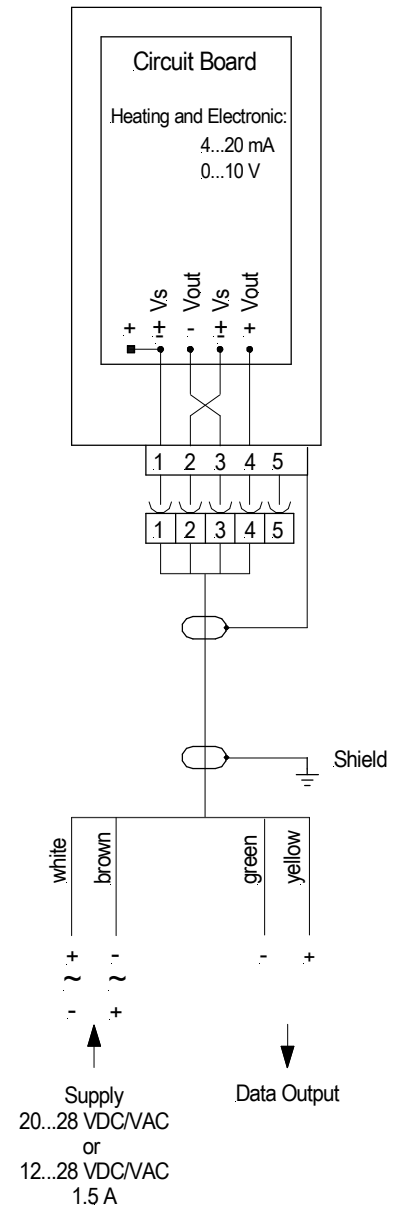
02 / 02..2018

## DIMENSIONS SKETCH



\*Different adapters on request.

## CONNECTION PLAN



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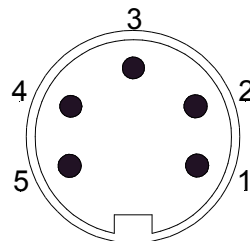
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## PIN CONFIGURATION

Signal	Signal Symbol	Connector Pin	Cable Colour
Supply	$\pm V_s$	1	white
Supply	$\pm V_s$	2	brown
Output ground	-Vout	3	green
Output	+Vout	4	yellow
n.c.	n.c.	5	-
Shield	PE	-	-

**Please connect the shield to earth !**

## CABLE CONNECTOR



Solder side

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