

# Wind Direction Sensor

GROUP 4	WIND
NO.	<b>4192.0000</b>
VERSION / DATE / NAME	02 / 02.2018 / Zi



Sensor Type 4192, Wind Direction, full metal

## DESCRIPTION

The full metal wind direction sensor type 4192 serves for transmission of magnetically measured values of the wind direction. 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 and its dust and water repellent surface, as well as the high performance heating enable heavy duty applications like wind energy measurement or operation under severe climatic conditions.

## TECHNICAL DATA

<b>Measuring method:</b>	Magnetically, contact-free
<b>Measuring range:</b>	0°...359°
<b>Threshold:</b>	<0.7 m/s
<b>Accuracy:</b>	2°
<b>Resolution:</b>	1°
<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 $\equiv$ 0°...360°
<b>Dimensions:</b>	Housing $\varnothing$ 35 mm, height approx. 307 mm
<b>Weight:</b>	approx. 400 g
<b>Installation:</b>	anchor point $\varnothing$ 25, $\varnothing$ 28 resp. $\varnothing$ 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 dataloggers:</b>	COMBILOG 1020.2000 1022.2000

## ORDERING CODE

### WIND DIRECTION SENSOR

heated 0...10 V (20...28 VDC/VAC)	<b>4192.1000</b>
heated 4...20 mA (12...28 VDC/VAC)	<b>4192.1400</b>

## OPERATING INSTRUCTIONS

### INSTALLATION

The wind direction 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).

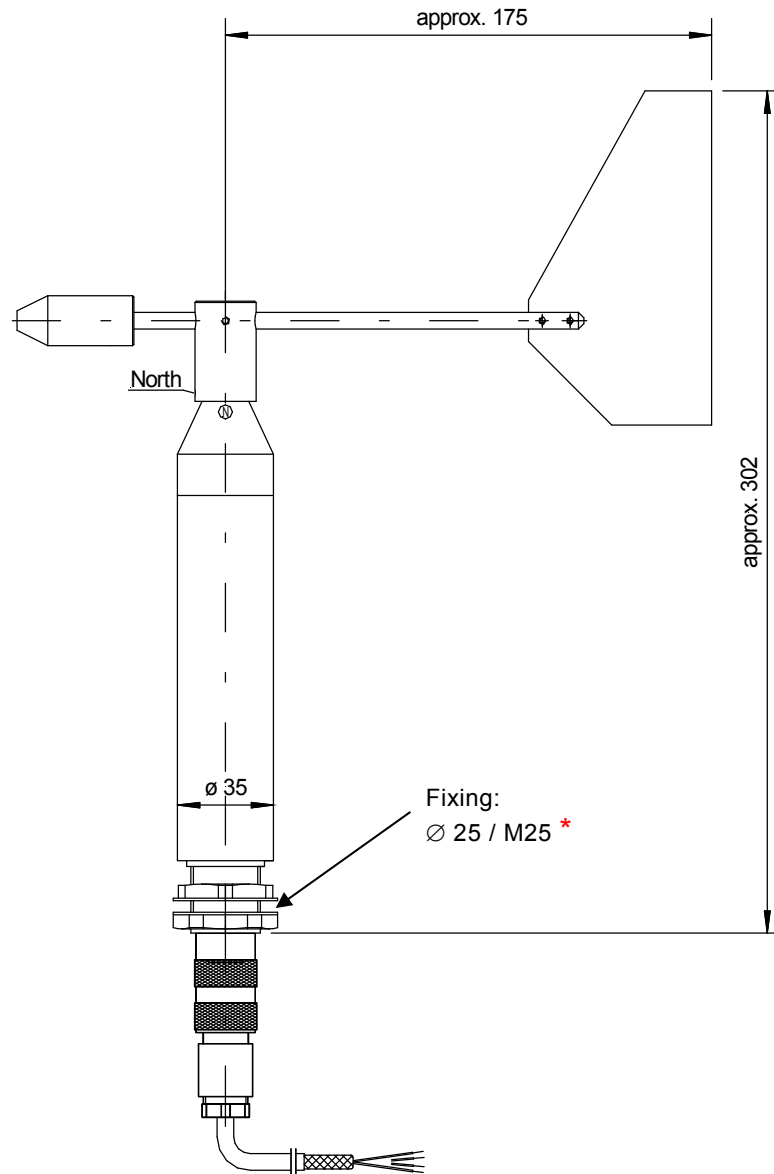
Technical data are subject to change!



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## DIMENSIONS SKETCH



**\*Different adapters on request.**

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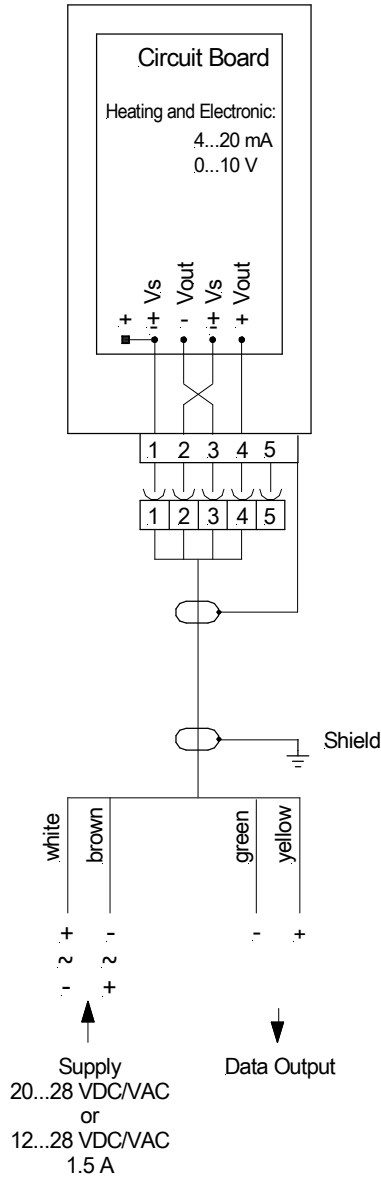
NO.

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## CONNECTION PLAN

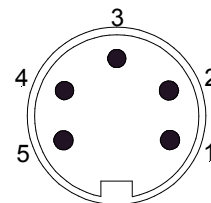


## PIN CONFIGURATION

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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