# Wind Vane PVC Housing, Rotor in black painted Stainless Steel Type DWS-D-DAC13

# **Product Description**

DWS-D-DAC13 is a relative wind vane designed mainly for the windmill industry for measurement of the relative wind direction.

The product contains both PNP- and NPN open collector outputs, in which a fixed current is switched according to the selected direction. A built-in self-regulated heater reduces the risk of glazing. The heater is supplied separately, which makes it possible to control the heating.

The DWS-D-DAC13 is equipped with a specially designed protection mechanism, which protects the bearings and the electronic parts against dirt and humidity.

The body of the sensor is made of black PVC, and the rotor is produced in stainless steel.

# Wind vane for relative wind directionOpto-electronic detection

- · PNP- & NPN-open collector outputs in the same unit
- Indication of 0° and 90° intervals
- 10 to 28 VDC supply voltage
- All inputs and outputs are protected against reverse polarity and transients
- Built-in heater
- Dust sealing

#### Ordering Key

Dynamic wind sensor Wind direction Digital output	
(Future subtypes) Cable version	
Standard cable length in full	
incirca and a second se	

") can be specified by customer

#### Specifications

Rated operational voltage	
U <sub>B</sub>	12 to 24 VDC
Uc	10 to 28 VDC
Supply current (without heater)	Approx. 20 mA (all outputs off)

# **Output Specifications**

Signal NPN Open Collector constant current sink PNP Open Collector	Square wave 12.5 mA ± 2mA
constant current source	Square wave 12.5 mA $\pm$ 2mA
Output power	≤ 250 mW
Load supply voltage	Min. 10 VDC Max. 28 VDC
Voltage drop	Typ. 4.9 VDC

# General Specifications

Dimensions	145 mm
Wind vane length	External thread: M28 x 2
Thread	with one nut
Materials Body Rotor Bearings Cable	Black PVC Stainless steel (AISI 303), black painted Instrument ball bearings, stainless steel Shielded grey PVC, 8 x 0.25 mm <sup>2</sup>
Rotor/housing tightening	Dust labyrinth
Environment	IP54
Degree of protection	0 to 100% RH
Ambient humidity	Against high humidity, salt
Climatic protection	and dust
Ambient temperature	-20 to 60°C (-4 to +140°F)
Operating temperature	-20 to 60°C (-4 to +140°F)
Storage temperature	> -20°C (> -4°F)
Heating system	PTC-element
Heater	12 to 24 VAC/DC
Supply voltage	on separate wires

#### **CARLO GAVAZZI**

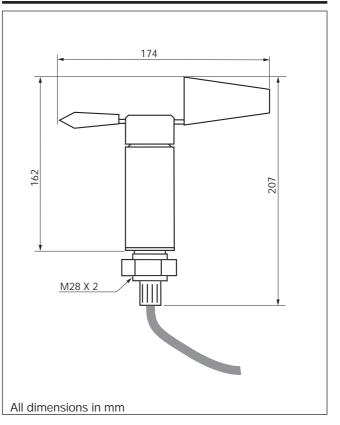
DWS-D-DAC13



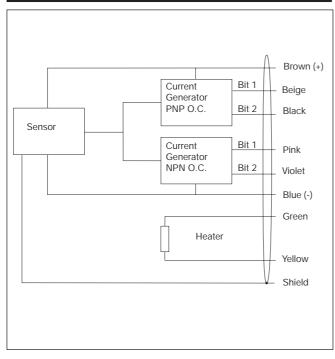
Inrush current Power consumption	1.5 A @ -20°C (-4°F): app. 10 W @ +20°C (+68°F): app. 5 W @ +60°C (+140°F): app. 1.5 W
EMC	
IEC 61000-4-2	
Contact discharge	± 4 kV
Air discharge	± 8 kV
IEC 61000-4-3	
Radiated radio-frequency	15 V/m
Electromagnetic fields	
IEC 61000-4-4	
Fast transients/burst	
Power port, performance B	± 2 kV
Signal port, performance B	± 1 kV
IEC 61000-4-5	
Surge 1.2/50 µs	
Power port, $Ri = 2 \Omega$	500 V
Signal port, Ri = 47 $\Omega$	2000 V
IEC 61000-4-6	
Conducted disturbances	
induced by radio-frequency	101/
fields	12 V <sub>rms</sub>
Mounting instruction	Mounted vertical with M28
	thread.
	Marking (dot) on the housing
	indicates 0° position.
Weight	1.1 kg incl. 13 m cable and
	packaging

# **General Specifications (cont.)**

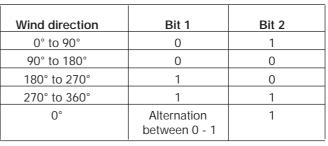
#### Dimensions

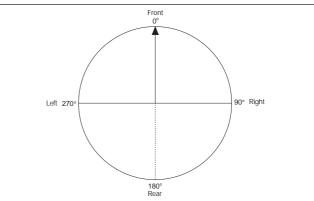


# Wiring Diagram



### Signal





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