

Wind Vane PVC, black painted Stainless Steel Type DWS-D-DGC13

CARLO GAVAZZI



- Opto-electronic wind vane for absolute wind direction metering
- Output: PNP transistors for control equipment
- Wind vane with conical wind catcher in black painted stainless steel (AISI 303)
- Supply voltage: 20 to 28 VDC
- Indication of the wind direction in 16 steps, 22 1/2° each
- Built-in heater for automatic de-icing

Product Description

Absolute wind vane (anemoscope) type DWS-D-DGC13 for the control of yawing wind turbine. DWS-D-DGC13 contains four Ga-AS diodes, a coded disc, and four photo-transistors with open collector PNP output. The wind vane is registering and sig-

nalling the wind direction from the starting point. The heating element is supplied separately. The wind vane is placed on the top of a wind turbine and consists of a wind vane of stainless steel, a rotor shaft with ball bearings, and a house of PVC.

Housing

Black PVC

Output

PNP
Open collector

Specifications

Rated operational voltage	20 to 28 VDC
Rated operational current (I_e)	28 mA (1 kΩ)
No-load supply current (I_o)	Typical 20 mA
Hysteresis (H)	3.5°
Resolution	22 1/2° ± 1 1/2°
Signal output	4 bit Gray code
Mounting	On the top of the wind turbine with the marking dot on the housing pointing forward (perpendicularly to the wings)
Ambient temperature	-20 to +50°C (-4 to +122°F)
Housing material	
Body	Black PVC
Rotor	Blackpainted stainless steel (AISI 303)
	Conical wind catcher
Bearings	Ball bearings

Cable

Unscreened, black PVC
12.5 m, 8 x 0.25 mm²,
Ø 6.3 mm. Strain relieved

Weight

(incl. cable and packaging)

Approx. 1.1 kg

Thread

External thread: M28 x 2
With one nut

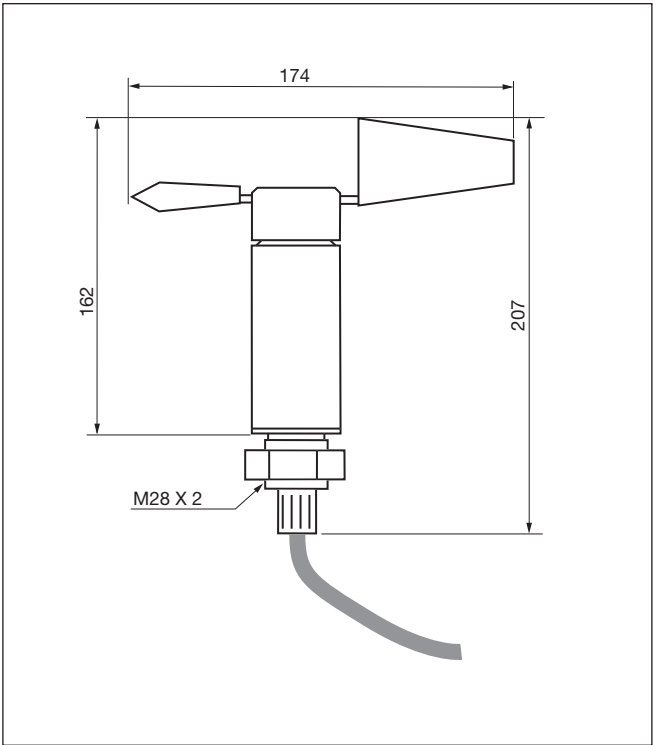
Heating element

Separate supply
Inrush current

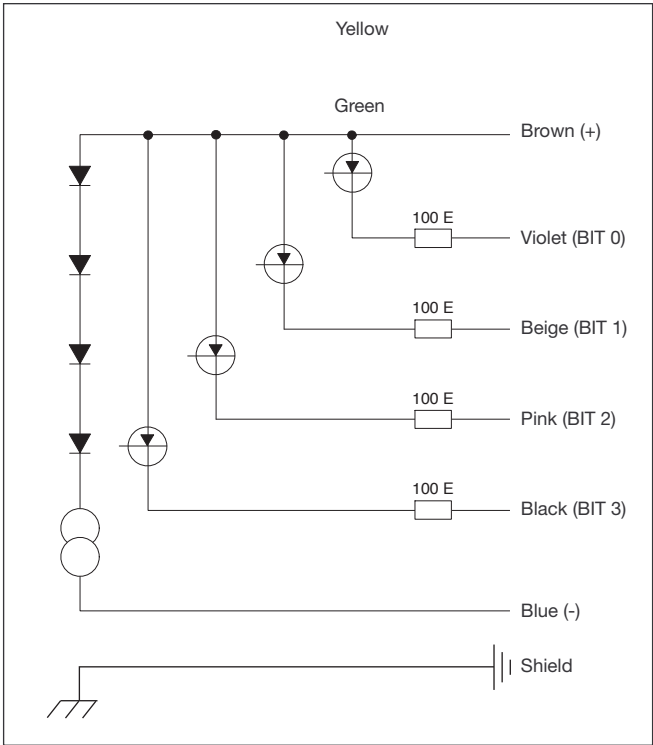
Consumption -20°C (-4°F) 10 W
+20°C (+68°F) 5 W
+50°C (+122°F) 1.5 W



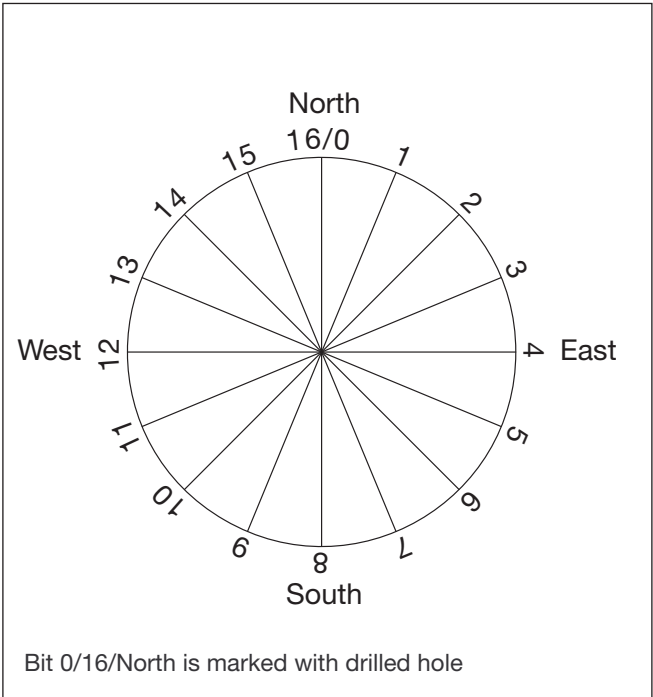
Dimensions (mm)



Wiring Diagram



Mode of operation



Bit					
Decimal					
		3	2	1	0
0		0	0	0	0
1		0	0	0	1
2		0	0	1	1
3		0	0	1	0
4		0	1	1	0
5		0	1	1	1
6		0	1	0	1
7		0	1	0	0
8		1	1	0	0
9		1	1	0	1
10		1	1	1	1
11		1	1	1	0
12		1	0	1	0
13		1	0	1	1
14		1	0	0	1
15		1	0	0	0

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