Wind direction sensor Use instructions FST200-202 (V1.0)

FX-Y-001

Important statement

This manual is wind direction sensor using method described. Operational mistake will affect the product service life, reduce its performance, serious may cause accident. Please before use must be carefully cooked reading instructions. This manual is delivered to the end user. Please keep the instruction manual for the time needed.

1. Product introduction

Wind direction sensor, the main structure parts by alloy material produced and surface treatment, the product has a good waterproof, corrosion resistance, and rotating parts are used seal design, can effectively prevent water, salt spray and dust of the invasion. Sensor can be stable and accurate acquisition of environmental wind direction signal, suitable for high-altitude operations, engineering machinery, port machinery, etc..

Performance features

- (1) The accuracy of the data acquisition is high, the reliability is strong;
- (2) Use all metal shell, corrosive, strong wind resistance; (3) Circuit with polarity protection design;
- (4) With the EMC CE standard, multi level lightning surge protection design.

3. Pay attention to matters

- (1) After opening the product packaging, please check whether the appearance of the product is in good condition, to verify the relevant content of the product and product certification and product conformity.
- (2) Strictly according to the product line connection mode, can not live wiring, then the line inspection without error rear can power, and in the product allows the excitation voltage, don't over voltage use;
- (3) Do not pull the cable output line to avoid damage to the internal structure of the product;
- (4) Transport, handling, installation direction transmitter when the wind direction, do not twist, pull rod pressure sensor and a tail fin, so as not to damage the transmitter.

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4. Technical parameters

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Power Supply	DC 12~30V	Measuring Range	0°~360°	Heating type
Starting wind speed	≤ 0.5m/s	Limit Wind Velocity	>70m/s	wind direction sensor 1. Heating mode
Direction	16 Direction	Resolution	22.5°	PTC automatic heating
Accuracy	±3°	Operating Humidity	0%~95%RH	2. Heating voltage
Surge protection	EMCIII	Electrostatic protection	15KV	24VDC
Operating Temperature	-20℃~+85℃	Protection grade	IP65	3. Heating power
Body Material	Aluminum alloy	Vane Material	Aluminum alloy	<50W
Output Signal 4~20mA (Typical load resistance: 250Q) 0~5V;0~10V;				

5. Installation instructions Unit:mm Unit:mm

- 1.Please install the electrical interface is aligned with the direction of the north; level sensor installation, the installation base and the horizontal plane angle of not more than 5 degrees is appropriate, to ensure the sensor in low wind speed can accurately measuring wind direction.
- 2.As shown above, the wind and the caudal fin shape position directly affects the sensor accuracy, installation process do not grasp the direction rod and a tail fin, so as to avoid damage to the sensor.

2 +Signal out White Current/ voltage / 5-Wire 3 GND Blue (optional) Heating type 4 Heat24V+ Black Heat24V-5 Grey

Serial number

Wiring Method

Brown

+Vcc

6. Electrical interface and connection method

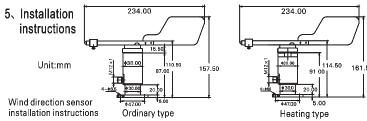
Output line | Output Signal

M12 Connector

		1	+Vcc	Brown
	Current	2	+lout	White
3-Wire	Туре	3	GND	Blue
		4	PE	Black
		1	+Vcc	Brown
2 \Miro	Voltage	2	+Vout	White
3-11110	Туре	3	GND	Blue
		4	PE	Black
	3–Wire	Voltage	3-Wire Current Type 3 4 3-Wire Voltage Type 3 3 3	3-Wire

4. Technical parameters

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Surge protection	EMC III	Electrostatic protection	15KV	24VĎC Š	
Operating Temperature	-20°C~+85°C	Protection grade	IP65	3. Heating power	
Body Material	Aluminum alloy	Vane Material	Aluminum alloy	<50W	
Output Signal 4~20mA(Typical load resistance: 250Ω) 0~5V;0~10V;					



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			1	+Vcc	Brown
		Current/	2 +Signal out	White	
2 • •1 3 • •4	5-Wire	voltage / (optional)	3	GND	Blue
Heating type			4	Heat24V+	Black
			5	Heat24V-	Grey

			1	+Vcc	Brown
		Current	2	+lout	White
	3-Wire	Туре	3	GND	Blue
(2 • •i) 3 • •4)			4	PE	Black
Ordinary type			1	+Vcc	Brown
	3_\\/iro	3-Wire Voltage Type	2	+Vout	White
	3-11110		3	GND	Blue
			4	PE	Black

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		·	4	Heat24V+	Black
			5	Heat24V-	Grey

5. Installation instructions	234.00	234.00
Unit:mm	15.50 10.50 110.50 157.50	91.00 161.5
Wind direction sens installation instructi	or 0rdinary type	447.00 5.00 Heating type

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		Current	2	+lout	White
	3-Wire	Type	3	GND	Blue
(2 • •1) (3 • •4)			4	PE	Black
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