

Polycarbonate wind speed transmitter (Pulse type)

SN-3000-FSJT-* Ver 2.0

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1.1Product Overview

SN-3000-FSJT-* wind speed transmitter (pulse type) is small and light, easy to carry and assemble. The three-cup design concept can effectively obtain wind speed information. The shell is made of polycarbonate composite material, which has good anti-corrosion and anti-erosion characteristics, which can ensure that the transmitter will not rust after long-term use. At the same time, the smooth internal bearing system ensures the accuracy of information collection. It is widely used in wind speed measurement in greenhouses, environmental protection, weather stations, ships, docks, breeding and other environments.

1.2Features

- Range:0-70m/s, resolution0.0875m/s
- Anti-electromagnetic interference processing
- The bottom outlet is adopted to completely eliminate the aging problem of the rubber pad of the aviation plug, and it is still waterproof after long-term use.
- Adopt high-performance imported bearings, small rotation resistance and accurate measurement
- Polycarbonate shell, strong mechanical strength, high hardness, corrosion resistance, no rust, can be used outdoors for a long time
- The structure and weight of the equipment are carefully designed and distributed, with small moment of inertia and sensitive response.

1.3Main parameters

| DC power supply (default) | 5~30V DC |
|---|--|
| Transmitter circuit operating temperature | -40°C~+60°C,0%RH~80%RH |
| Communication interface | Pulse output |
| Resolution | 0.0875m/s |
| Accuracy | ±(0.2+0.03V)m/s,@(0~30m/s,25°C) V indicates wind speed |
| Measuring range | 0~70m/s |
| Dynamic response time | ≤0.5s |

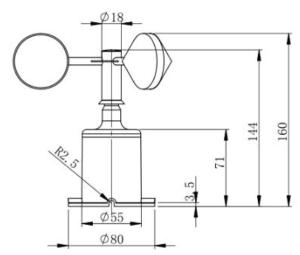
Pro: Range

| Start wind speed | ≤0. | 2m/s |
|------------------|-----|--------|
| Load Capacity | PNP | ≥100mA |
| | NPN | ≥100mA |

For long-term use, please keep the

ambient wind speed within 30m/sthe following

Product size:



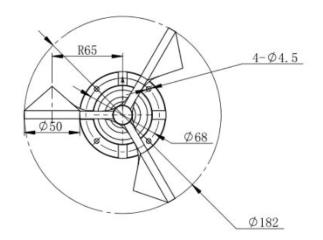
整体高度: 160

主轴高度: 144

底座高度:71

底座直径: φ80

单位(mm)



安装孔径: φ4.5

分布直径: φ68

单位(mm)

1.5Product Selection

| SN- | | | | Company Code |
|-----|-------|-------|------|------------------------------------|
| | 3000- | | | Shell code |
| | | FSJT- | | Wind speed transmitter |
| | | | PNP | PNPOutput |
| | | | NPN | NPNOutput |
| | | | NPNR | Internal pull-up resistorNPNOutput |



No. 2chapter Hardware Hookup

2.1Equipment pre-installation inspection

Equipment List:

- Transmitter equipment1tower
- Mounting Screws4indivual
- Certificate of conformity, warranty card

2.2Interface Description

Wide voltage power input5~30VBoth are acceptable.

2.2.1Sensor Wiring



| | Line Color | illustrate |
|--------------|----------------|-----------------------|
| power supply | brown | Power supply positive |
| | | (5~30V DC) |
| | black | Negative power supply |
| Pulse signal | Yellow (green) | PNPOUT |
| | blue | NPN (NPNR) OUT |

2.3Installation

Flange installation and threaded flange connection make the lower pipe of the wind speed sensor firmly fixed on the flange plate and chassis.Ø80mm,existØ68mmOpen four equalØ4.5mmThe mounting holes are used to fix it tightly on the bracket with bolts to keep the whole set of instruments at the best level and ensure the accuracy of wind speed data. The flange connection is easy to use

Pro: Range

and can withstand greater pressure.



2.4 Notes

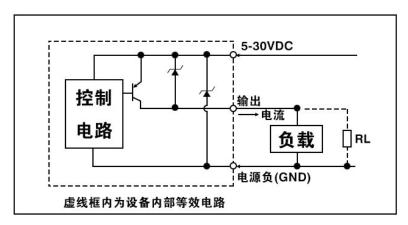
- 1.Users are not allowed to disassemble or touch the sensor core to avoid damage to the product.
- 2.Try to stay away from high-power interference equipment to avoid inaccurate measurements, such as frequency converters, motors, etc. When installing or removing the transmitter, the power supply must be disconnected first. Water entering the transmitter may cause irreversible changes.
- 3.Prevent chemical reagents, oil, dust, etc. from directly damaging the sensor. Do not use it for a long time in an environment with condensation or extreme temperature. Prevent cold and hot shocks.



No. 3chapter Instructions

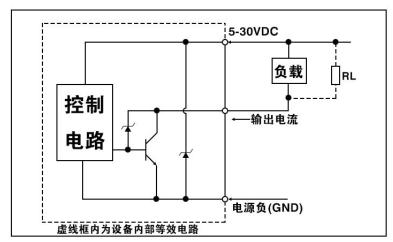
3.1Output circuit diagram

PNPThe output circuit diagram is as follows: (maximum output current=100mA)



当使用电压信号时,需连接电阻RL,推荐阻值5.1KΩ,功率≥0.25W

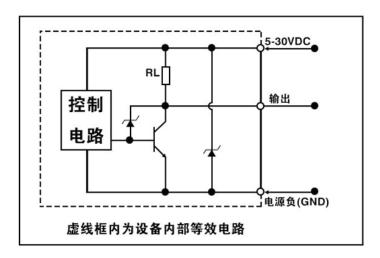
NPNThe output circuit diagram is as follows: (maximum sink current=100mA)



当使用电压信号时,需连接电阻RL,推荐阻值5.1KΩ,功率≥0.25W

Internal pull-up resistorNPNThe output circuit diagram is as follows: RL=5.1 K Ω

Pro: Range



3.2Pulse output type calculation

Transmitter1Circle, Output20Pulse

For example, when the wind speed transmitter1schange1When the transmitter1sOutput20Pulses, representing wind speed1.75m/s.