



FA211A / 213A / 215A



FA211A / 213A / 215A +PJ3001

FA21xA Wind speed and direction vane

Application

Special design for heavy machinery of planets, electric power, wind industry, harbor, factory and mine, etc.

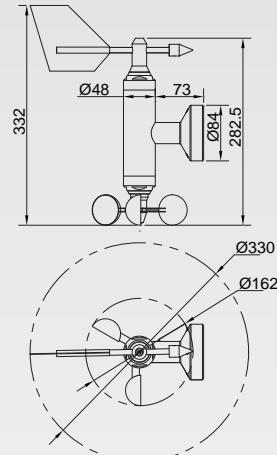
Main Functions & Features

- Wind sensor use magnetic sensor measuring principle.
- Sensor data collected with high precision and reliability.
- Wind speed measurement with wide range, low wind speed start.
- Wind speed sensor use metal enclosure, corrosion resistant and strong anti-wind capability
- Wind cup stainless steel can be used in harsh conditions.
- Compact sensor design, set wind speed measurement, heating device in one, easy installation and maintenance.
- Sensor fault-tolerant design, sensor will not be damaged even wrong wiring.
- Surge protection design.
- Wide supply power voltage range.
- Various signal output, suit for different application.

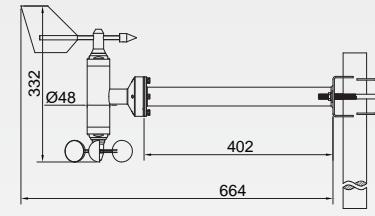
Specification

| Description | Parameter |
|-----------------------|--|
| Voltage | VCC = DC12 - DC30V |
| Start speed | ≤ 0.5m / s |
| Wind speed range | 0.5 - 50m / s |
| Accuracy | ± 0.5 m / s (<5m / s) Measuring vale ± 3% (≥5 m/s) |
| Wind direction range | 0 ~ 360° |
| Accuracy | ± 3° |
| Wind direction signal | 4 ~ 20mA current (linear correspond 0 ~ 360°), load resistance ≤ 500Ω |
| Heating voltage | DC24V ± 6V |
| Heating power | ≤ 100W |
| Heating type | Automatic |
| Anti-wind level | >70 m / s |
| Surge protection | 4KV / 2KA |
| ESD protection | 15KV |
| Temperature | -40°C ~ +70°C |
| Humidity | 0% ~ 99% |
| Body material | Aluminum alloy / Fluorocarbon coating |
| IP rate | IP65 |
| Wind cup material | Stainless Steel 304 |
| Vane material | Carbon fiber + stainless steel 304 |
| Bearing material | Stainless Steel 440C |
| Bearing supplier | NMB / EZO |
| Weight | 2.8KG |

| Model | Wind speed signal |
|--------|--|
| FA211A | UART signal (Match with NANHUA FA130C display) |
| FA213A | 4 ~ 20mA current (linear correspond 0 ~ 50m / s), load resistance ≤ 500Ω |
| FA215A | NPN pulse signal; 0.5m / s = 2Hz; 50m / s = 573 Hz $V [m / s] = 0.08669 \times f [Hz] + 0.32$ |



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