FA13XB Self – balance Wind Speed Sensor

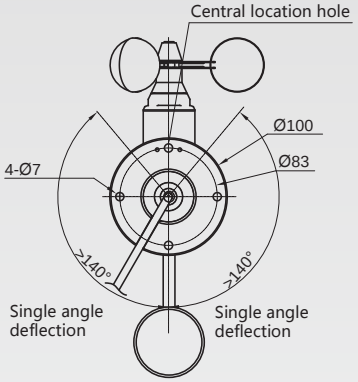
FA131B / FA133B /FA135B

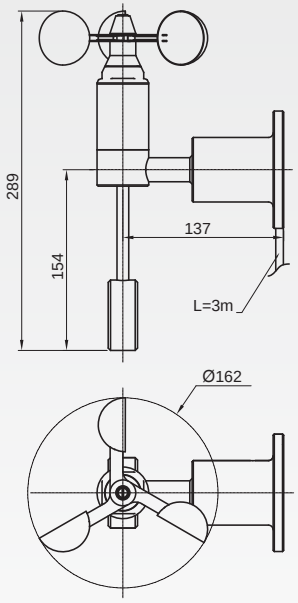
Application

Special design for Crawler crane, Truck crane, Bridge inspection vehicle etc. large lift, cantilever machinery.

Main Functions & Features

- Anemometer sensor use magnetic sensor measuring principle.
- Sensor data collected with high precision and reliability.
- Special design for heavy equipment, modern design, self – adjusting vertical angle.
- 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 voltage range.





Specification

Description	Parameter
Operating voltage	VCC=DC12V – DC30V
Range	0.5 ~ 50m / s
Start speed	≤ 0.5m / s
Anti – wind level	>70 m/s
Accuracy	± 0.5 m / s (< 5m / s) Measuring vale ±3% (≥5 m / s)
Heating type	Automatic
Heating voltage	DC24V ± 6V
Heating power	≤ 50W
Surge protection	4KV / 2KA
ESD protection	15KV
Ambient temperature	-40˚C ~ +70˚C
Humidity	0% ~ 99%
Body material	Aluminum alloy / Fluorocarbon coating
IP protection	IP65
Wind cup material	Stainless Steel 304
Bearing material	Stainless Steel 440C
Weight	2.5KG

Model	Signal
FA131B	UART :Universal Asynchronous Receiver / Transmitter, baud rate 300, eight bit data, no parity, one stop bit, signal range 0 ~ VCC. Match Nanhua FA101C or FA130C display panel.
FA133B	4 ~ 0mA three-wire current loop; load resistance 500Ω.
FA135B	NPN pulse signal; 0.5m / s=2Hz; 50m/s=573Hz V [m / s] = 0.08669 × f [Hz]+0.32.