WIND MEASUREMENT / DATA SHEET

SS102-05
Dust-Proof Wind Direction Sensor

Reliable wind direction monitoring with sealed construction and all-metal protection for demanding environments.

Overview

- SS102-05 is a high-reliability wind direction sensor for stable and accurate environmental wind direction measurement.
- The internal digital circuit captures the directional signal from the wind vane and outputs an electrical signal linearly related to ambient wind direction.
- Alloy structural components with specialized surface treatment and sealed internal and rotating parts help resist water, salt spray, dust and sand.



Operating voltage **15-30 VDC**	**Sensing** **Magnetic**	**Housing** **All-metal alloy**	**Protection** **Sealed**
EMC **CE EMC**	**Surge protection** **Multi-level**	**Wiring** **Fault-tolerant**	**Application** **Outdoor**

Key Advantages

- Non-contact magnetic sensing measurement principle.
- Built-in high-performance sensor for accurate and reliable data collection.
- All-metal housing with corrosion resistance and strong wind resistance.
- Sealed construction helps prevent water, salt spray, dust and sand ingress.
- Fault-tolerant circuit design helps protect against wiring errors.
- CE EMC and multi-level lightning and surge protection are stated on the source page.

Application Scenarios

- Factories and electric power facilities.
- Ports, mines and construction machinery.
- Wind turbines and large mechanical equipment.
- High-altitude operations and outdoor wind monitoring.

Measurement Principle

SS102-05 uses non-contact magnetic sensing. The internal circuit captures the directional signal from the wind vane and outputs an electrical signal linearly related to ambient wind direction.

Technical Specifications

Item	Specification
Operating voltage	15-30 VDC
Sensing principle	Non-contact magnetic sensing
Sensor element	Built-in high-performance sensor
Housing	All-metal alloy housing with specialized surface treatment

Item	Specification
Sealing / resistance	Sealed internal and rotating components; water, salt spray, dust and sand resistance stated on the source page
Circuit protection	Fault-tolerant design for incorrect-wiring protection
EMC / surge protection	CE EMC and multi-level lightning and surge protection stated on the source page

The accessible webpage does not expose numerical measurement, accuracy, output, environmental, or dimensional tables for this model. Confirm the final configuration and technical schedule before ordering.

Output / Communication

Output Options

- The accessible product-page text does not expose a numeric output-signal list.
- Confirm the required output configuration against the ordered product.

Protection and Electrical Notes

- Operating supply: 15-30 VDC.
- CE EMC and multi-level lightning and surge protection are stated on the source page.
- Fault-tolerant protection is stated for wiring errors.
- Confirm the actual output and wiring configuration before connection.

Mechanical Dimensions / Installation

The accessible product-page text does not state numerical mechanical dimensions or provide an installation drawing. Confirm the final mechanical drawing and mounting interface against the ordered configuration.

Configuration Notes

The accessible page text does not provide a numeric output list or pin-by-pin wiring definition. Confirm the final electrical connection and cable definition against the actual order.

Product Selection / Ordering Information

Selection	Configuration
Base model	SS102-05 - Dust-Proof Wind Direction Sensor
Operating voltage	15-30 VDC
Sensing principle	Non-contact magnetic sensing
Housing	All-metal alloy housing with specialized surface treatment
Protection design	Sealed construction; fault-tolerant wiring protection; CE EMC and multi-level lightning / surge protection

The accessible webpage does not expose numerical measurement, accuracy, output, environmental, or dimensional tables for this model. Confirm the final configuration and technical schedule before ordering.

CONTACT / SUPPORT

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