PRODUCT OVERVIEW

# PROFESSIONAL-IX 3.0 Modbus wind direction sensor

## POSSIBLE APPLICATIONS

- Polar stations
- Wind turbines
- Ropeways
- Winter sports facilities
- Wind warning systems
- Airports

## Designed for cold environments

These wind sensors for use in cold climates feature a robust design to withstand extreme conditions. With their extended operating range and non-contact measurement principle, they deliver accurate wind measurements in real time. Their optimized heating concept makes them ideal for reliable operation at very low temperatures. Thanks to the Modbus protocol, the sensors can be seamlessly integrated into various systems, facilitating data acquisition and analysis.

- Wide measurement and temperature ranges for year-round use
- Excellent start-up values thanks to contactless measuring principle
- Optimal heating concept for cold climates
- Maximum resilience and durability

PRODUCT OVERVIEW

# PROFESSIONAL-IX 3.0 Modbus wind direction sensor

| Professional Line | PROFESSIONAL-IX 3.0 Modbus |
|---|---|
| **Ident-No.** | 00.14601.300003 |
| **Parameters** | Wind direction in ° |
| **Measuring ranges** | 0...360° |
| **Accuracy** | ± 1° |
| **Resolution** | < 1° |
| **Start-up value** | 0.4 m/s |
| **Protocols** | Modbus RTU |
| **Interface** | RS-485 |
| **Areas of application** | Temperature: -40...+70 °C heated; Wind speed: 0...60 m/s; Humidity: 0...100 % RH |
| **Supply voltage** | Sensor 24 (20...28) VDC, 312 mW; heating 24 VDC, 125 W |
| **Power consumption** | Max. 13 mA at 24 VDC |
| **Measuring elements** | Wind vane, dimensionally stable; specially coated aluminum |
| **Measuring principle** | Non-contact; Hall sensor array |
| **Heating data** | 125 W heating; electronically controlled |
| **Dimensions** | Wind vane: L 195 mm; H 295 mm |
| **Housing** | Seawater-resistant aluminum with a special coating; IP65 when installed vertically |
| **Weight** | 0.8 kg |
| **Accessories (order separately)** | ID 32.14601.060000 Cable, with plug on one end, 15 m<br>ID 32.14567.010000 Wind brace set, 750 mm |

As of November 15, 2026