

Avtron AV56 THIN-LINE III™ Blade Pitch Encoders



Ultra-Reliable Wind Blade Pitch

- Heavy Duty
 - Simple Cam-Screw Installation
 - Protected against short circuits and wiring errors
 - Wide-Gap Technology: No scraping or adjustment
 - Specifically designed and OEM tested for GE Wind blade pitch
 - Sealed Electronics
 - Self-Diagnostic LED
 - 3 Year No-Hassle Warranty

AV56-WIND

AV56 THIN-LINE III™ Blade Pitch Encoders set the industry standard for reliable blade pitch controls.

Other THIN-LINE III models, ranging from 115mm to 8.5", are available to fit other motor sizes.

AV56 blade pitch encoders feature simple installation, durable construction, and clear diagnostics to eliminate encoder-related downtime: First, the magnetic sensors are fully potted, to withstand dirt and liquids. No glass disks, no optics to clog. There are no moving, wearing parts! The patented Wide-Gap™ Cam Screw Rotors™ put an end to sensor damage, are simpler to install, and stay securely mounted to the shaft. The universal 5-24V design drives longer cables and is protected against wiring errors and surges.

When you power up an AV56, you know you installed it right: the green LED tells you the digital self-tuning has set your AV56 optimally. If at any time, the AV56 cannot produce ideal signals, the LED changes to red. Even wiring errors and short circuits are detected and indicated by changing the LED to orange. However, the encoder keeps working to give you time to schedule service.

With a real-world installation history of over 4,500,000 hour MTBF, and worldwide installation in tens of thousands of wind towers, AV56 blade pitch encoders will keep your machine running 24/7/365!

OUTLINE DRAWING

Check out our website for more detailed specifications, drawings, and installation instructions. www.avtronencoders.com

MORE AV56-WIND ADVANTAGES

AV56-WIND SPECIFICATIONS

Operating Power: Volts: 5 - 24 VDC; Current: 100mA, no load

Output Format: A Quad B with Marker (A,/A, B,/B, Z,/Z)

Frequency Range: 250 kHz Max

PPR: 1024 Standard (other PPRs available)

Speed: 5400 RPM Max. std., for higher speeds, consult factory

Electronics: Fully Encapsulated, IP67 (see manual for details)

Temperature: -40° to 100°C (150°C rotor)

Vibration: 18 g's

Shock: 1 meter drop test

Chemical: Polyurethane enamel paint protects against salt spray, mild acids, and bases.

Weight: 2 lbs [0.9 kg]

All dimensions are in inches [millimeters]; Specifications and features are subject to change without notice.

SELECTION GUIDE



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All other trademarks and registered trademarks are the property of their
respective owners. Nidec Industrial Solutions' standard warranty applies.
All dimensions approximate.