

## Avtron Bullseye32™ Encoders



Designed for OEMs - Self Centering -  
Easy Mounting - No Bearings

### Magnetic Durability in a Compact Encoder

Replaces Hollow Shaft Models  
Directly

No Moving Wearing Parts

Universal 5-24V Operation

LED & Remote Alarm Diagnostics

-40°C to +100°C Operation

2 Year No-Hassle Warranty

AV32



Want a super-simple, ultra-reliable OEM encoder?  
**Bullseye!**

Avtron Bullseye32™ (AV32) encoders eliminate the top culprits that cause encoder failures: there are no bearings, no seals, no optics, no glass disks!

And they don't require expensive mounting flanges like other no-bearing encoders.

Bullseye32 self-centers without a pilot and mounts in seconds: Tighten the rotor clamp on the shaft, bolt the housing in place, and unlock the patented centering mechanism by removing the red end cap. Top it off with the shaft cap. It's so simple, we've created a **visual instruction sheet** (in our documents tab) for installation.

Bullseye32 is protected against dust, dirt and water. Why waste installation time protecting encoders with baskets? How about a Bullseye instead - it's tougher than most "protective baskets"! And Bullseye32 includes complete self-diagnostics, right down to the

**signal quality and wiring!**

**Bullseye32 is also electrically tough: in addition to a built-in voltage regulator, Bullseye32 is fully protected from reverse voltage wiring and shorting.**

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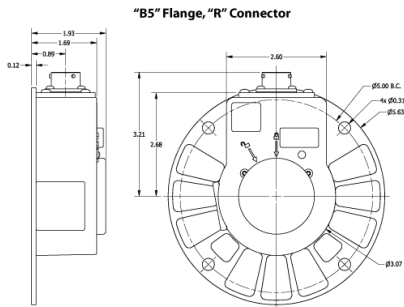


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Features and specifications are subject to change without notice. EU-SMART™, SMARTSafe™, SMARTTach™, THIN-LINE™, WIDE-GAP™, SAFETach™, and BULLSEYE32™ are trademarks of Nidec Industrial Solution. All other trademarks and registered trademarks are the property of their respective owners. Nidec Industrial Solutions' standard warranty applies. All dimensions approximate.

## OUTLINE DRAWING



## MORE AV32 ADVANTAGES

- Replaces HS25, HS35, HOG and many other hollow shaft models
- Replaces H25® and many other shafted, flange-mounted encoders
- Shrugs off dirt, oil, and water contamination
- Wide-Gap™ technology
- No protective basket needed
- Includes wiring self-diagnostics and protection
- Slashes installation time
- Survives shaft runout errors

## MORE AV32 SPECIFICATIONS

### Electrical:

Operating Power: Volts: 5 - 24 VDC; Current: 60mA, no load  
Output Format: A Quad B with gated marker (A, /A, B, /B, Z, /Z)  
Frequency Range: 0 to 250 kHz  
PPR: 32 - 5000

Mechanical: Speed: 6000 RPM Max., (for higher speeds, consult factory)  
Temperature: -40° to 100°C  
Environmental: IP65 Electronic Protection  
Vibration: 5-2000Hz  
Shock: 50G, 11ms duration  
Weight: 0.7 lbs [350g]  
All dimensions are in inches [millimeters]. Specifications and features are subject to change without notice.

Check out our website for more detailed specifications, drawings, and installation instructions. [www.avtronencoders.com](http://www.avtronencoders.com)

## SELECTION GUIDE

### AV32ANAYP4DAA000

MODEL	ROTOR BORE SIZE	PPR	MOUNTING	CONNECTOR OPTIONS	CHANNELS	SPECIAL OPTIONS
AV32	AN - 5/8 in./0.625 in. Bore	AY - 1024 PPR	P4 - Nema 56 C Face 4.5 in. Pilot with 5.875 in. Bolt Circle 4 x 3/8-16 Bolts	D - 10 Pin MS with Plug, Dynapar Phasing	AA - All Channels, A, /A, B, /B, Z, /Z, Z Ch. 1/2 Pulse Width	000 - No Special Options