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

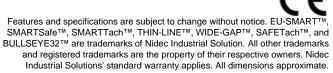
And they don't require expensive mounting flanges like other no-bearing encoders.

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.

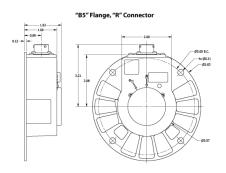
Bullseye32 is protected against dust, dirt and water. Why waste installation time protecting encoders with baskets? How about a Bullseye instead - it's tougher than most "protective baskets"! And Bullseye32 includes complete self-diagnostics, right down to the signal quality and wiring! Bullseye32 is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



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## **SELECTION GUIDE**

MODEL	ROTOR BORE SIZE	PPR	MOUNTING	CONNECTOR OPTIONS	CHANNELS	SPECIAL OPTIONS
AV32	XX - No Rotor XX - No Rotor AC - 1/4 in./0.250 in. Bore AE - 5/16 in./0.250 in. Bore AF - 3/8 in./0.250 in. Bore AH - 7/16 in./0.375 in. Bore AK - 1/2 in./0.375 in. Bore AL - 9/16 in./0.560 in. Bore AR - 3/4 in./0.500 in. Bore AR - 3/4 in./0.500 in. Bore AR - 3/4 in./0.500 in. Bore AR - 13/16 in./0.8125 in. Bore AV - 17/8 in./0.8175 in. Bore AV - 17/8 in./0.8175 in. Bore AV - 17/8 in./0.8175 in. Bore AV - 16/16 in./0.9375 in. Bore AV - 11./11000 in. Bore MB - 5mm Bore MD - 7mm Bore MH - 11mm Bore MH - 11mm Bore MH - 15mm Bore MM - 22mm Bore MM - 22mm Bore MV - 22mm Bore	AA - 32 PPR AK - 80 PPR AH - 120 PPR AM - 200 PPR AM - 200 PPR AL - 240 PPR AN - 256 PPR AS - 600 PPR AJ - 960 PPR AJ - 960 PPR AJ - 1024 PPR AJ - 1024 PPR AJ - 1024 PPR AZ - 1200 PPR AZ - 1200 PPR AJ - 1024 PPR AJ - 4006 PPR AJ - 4096 PPR AJ - 4096 PPR AJ - 4096 PPR AD - 4096 PPR AD - 4096 PPR AD - 4096 PPR AD - 5000 PPR AD - 5000 PPR - Must Be Divisible by 8	B2 - 3x #5-40 on 3.75 in. Bolt Circle B3 - 4xM6 on 140mm B.C. with stand-offs B5 - Baldor/ABB 4 x 1/4-20 Bolts on 5.00 in. Bolt Circle F1 - Fan Cover - 10mm Square Grid F3 - Fan Cover - 1/4 in. Arched Slots F5 - Fan Cover - 1/4 in. Arched Slots F9 - Fan Cover - 1/4 in. Straight Slots Grid F4 - Fan Cover - 5/16 in. Straight Slots Grid F4 - Fan Cover - 4/16 in. Straight Slots F5 - Fan Cover - 1/4 in. Arched Slots F6 - Fan Cover - 1/4 in. Straight Slots Grid F4 - Fan Cover - 1/16 in. Straight Slots F6 - Filot/Fan Cover - 6/16 in. Pito with 5.875 in. Bolt Circle 4 x 3/8-16 Bolts P6 - Pilot/Fan Cover - 6.75 in. Face with 5.875 in. Bolt Circle 4 x 3/8-16 Bolts P8 - Pilot - 8 5 in. FC Face with 7.25 in. Bolt Circle	C - 10 Pin MS with Plug, Avtror/KEI Pin Out D - 10 Pin MS with Plug, Reverse Phasing Dynapar HS35 Pin Out G - 6 Pin MS with Plug, Avtror/KEI Pin Out H - 6 Pin MS with Plug, Reverse Phasing Dynapar HS35 Pin Out M - 7 Pin MS with Plug, Avtror/KEI Pin Out R - 10 Pin Mini-MS Twist Lock with Plug S - 10 Pin Mini-MS Twist Lock with Plug S - 10 Pin Mini-MS Twist Lock with Plug S - 10 Pin Mini-MS Twist Lock with Plug on an 18 in. Cable T - M12-8 Pin Euro without Plug V - 18 in. Flex. Cable with Side Exit Cord Grip Y - 18 in. Flex. Cable with End/Top Exit Cord Grip 2 - M23-12 Pin Euro without Plug, Reverse Phasing	AA - All Channelis, A, (A, B, /B, Z, (Z, CA - L/2 Pulse Width AD - All Channelis, A, (A, B, /B, (X, Z, CA - All Channelis, A, (A, B, /B, No Marker Pulse A - All Channelis, A, B, Z, No Complements	000 - No Special Options 901 - Custom Cable Length 1 f/0.3M 902 - Custom Cable Length 2 fr./0.6M 903 - Custom Cable Length 3 fr/1M 910 - Custom Cable Length 10 fr/3.3M 915 - Custom Cable Length 10 fr/3.3M 915 - Custom Cable Length 12 fr/6.66M 925 - Custom Cable Length 20 fr/6.83M 930 - Custom Cable Length 30 fr/10M 933 - Custom Cable Length 30 fr/11M H00 - 5-24v in, 5-24v out hi- power standard (HX)



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