

Avtron Bullseye32TM **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 Bullseye32TM (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.

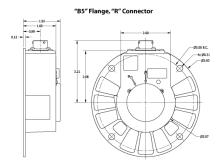
Bullseye32 self-centers without a pilot and mounts in seconds: Tighten the rotor clamp on the shaft, bolt the housing in place, and unlock the patented centering mechanism by removing the red end cap. Top it off with the shaft cap. It's so simple, we've created a visual instruction sheet (in our documents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



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



SELECTION GUIDE

MODEL	ROTOR BORE SIZE	PPR	MOUNTING	CONNECTOR OPTIONS	CHANNELS	SPECIAL OPTIONS
AV32	XX - No Rotor AC - 1/4 in./0.250 in. Bore AE - 5/16 in./0.250 in. Bore AE - 5/16 in./0.3125 in. Bore AH - 3/8 in./0.375 in. Bore AH - 7/16 in./0.4375 in. Bore AH - 7/16 in./0.4375 in. Bore AL - 9/16 in./0.500 in. Bore AL - 9/16 in./0.625 in. Bore AN - 5/8 in./0.625 in. Bore AN - 5/8 in./0.625 in. Bore AN - 5/8 in./0.750 in. Bore AI - 3/4 in./0.750 in. Bore AV - 7/8 in./0.875 in. Bore AV - 17/8 in./0.875 in. Bore AV - 17/8 in./0.875 in. Bore AV - 15/16 in./0.9375 in. Bore AV - 21mm Bore MV - 21mm Bore MV - 22mm Bore MV - 22mm Bore MV - 23mm Bore MV - 23mm Bore MV - 23mm Bore MV - 24mm Bore	AA - 32 PPR AK - 80 PPR AH - 120 PPR AH - 120 PPR AM - 200 PPR AM - 200 PPR AN - 256 PPR AN - 256 PPR AR - 360 PPR AE - 360 PPR AB - 480 PPR AS - 600 PPR AP - 720 PPR AJ - 960 PPR AJ - 960 PPR AJ - 960 PPR AJ - 1020 PPR AJ - 1	B2 - 3x #5-40 on 3.75 in. Bolt Circle B3 - 4xM6 on 140mm B.C. with stand-file B5 - Baldorf/ABB 4 x 1/4-20 Bolts on 5.00 in. Bolt Circle F1 - Fan Cover - 10mm Straight Slots F2 - Fan Cover - 10mm Square Grid F3 - Fan Cover - 1/4 in. Arched Slots F5 - Fan Cover - 5/16 in. Straight Slots F9 - Fan Cover - 8mm Square Grid FA - Fan Cover - 9mm Square Grid FA - Fan Cover - 10miversal for 5/16" (8mm) slots/squares P4 - Nerma 56 C Face 4.5 in. Plott with 5.875 in. Bolt Circle 4 x 3/8-16 Bolts F6 - 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, Avtron/Bel Pin Out D - 10 Pin Ms with Plug, Reverse Phasing Dynapar HS35 Pin Out G - 6 Pin Ms with Plug, Avtron/Bel Pin Out H - 6 Pin Ms with Plug, Avtron/Bel Pin Out H - 6 Pin Ms with Plug, Reverse Phasing Dynapar HS35 Pin Out M - 7 Pin Ms with Plug, Avtron/Bel Pin Out C - 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 W - 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 3 - M23-12 Pin Euro without Plug Reverse Phasing	Z, /Z, Z Ch. 1/4 Pulse Width	000 - No Special Options 901 - Custom Cable Length 1 ft/0.3M 903 - Custom Cable Length 2 ft/0.6M 903 - Custom Cable Length 2 ft/1.6M 903 - Custom Cable Length 3 ft/1.6M 910 - Custom Cable Length 10 ft/3.3M 915 - Custom Cable Length 15 ft/5M 920 - Custom Cable Length 20 ft/6.66M 920 - Custom Cable Length 20 ft/6.66M 930 - Custom Cable Length 25 ft/8.33M 930 - Custom Cable Length 30 ft/10M 931 - Custom Cable Length 30 ft/11M ft/933 - Custom Cable Length 30 ft/11M ft/933 - Custom Cable Length 33 ft/11M

