

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.

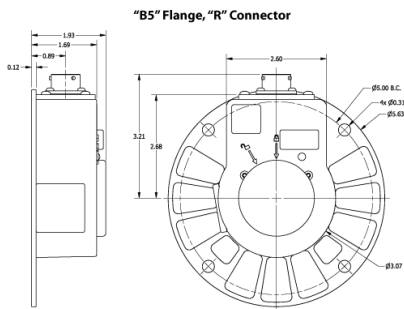


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OUTLINE DRAWING



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



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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./0.3125 in. Bore AF - 3/8 in./0.375 in. Bore AH - 7/16 in./0.4375 in. Bore AK - 1/2 in./0.500 in. Bore AL - 9/16 in./0.5625 in. Bore AN - 5/8 in./0.625 in. Bore AP - 11/16 in./0.6875 in. Bore AR - 3/4 in./0.750 in. Bore AT - 13/16 in./0.8125 in. Bore AV - 7/8 in./0.875 in. Bore AY - 15/16 in./0.9375 in. Bore AZ - 1 in./1.000 in. Bore MA - 4mm Bore MB - 5mm Bore MC - 6mm Bore MD - 7mm Bore ME - 8mm Bore MF - 9mm Bore	AA - 32 PPR AK - 80 PPR AH - 120 PPR AC - 128 PPR AM - 200 PPR AL - 240 PPR AN - 256 PPR AE - 360 PPR AG - 400 PPR AB - 480 PPR AR - 512 PPR AS - 600 PPR AP - 720 PPR AJ - 960 PPR AW - 1000 PPR AY - 1024 PPR AZ - 1200 PPR AV - 1440 PPR AU - 1800 PPR A3 - 2000 PPR	B2 - 3x #5-40 on 3.75 in. Bolt Circle B5 - Baldor/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 P4 - Nema 56 C Face 4.5 in. Pilot 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, Avtron/BEI Pin Out D - 10 Pin MS with Plug, Reverse Phasing Dynapar HS35 Pin Out G - 6 Pin MS with Plug, Avtron/BEI Pin Out H - 6 Pin MS with Plug, Reverse Phasing Dynapar HS35 Pin Out M - 7 Pin MS with Plug, Avtron/BEI Pin Out R - 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	AA - All Channels, A, /A, B, /B, Z, /Z, Z Ch. 1/2 Pulse Width AD - All Channels, A, /A, B, /B, Z, /Z, Z Ch. 1/4 Pulse Width BX - All Channels, A, /A, B, /B, No Marker Pulse EA - All Channels, A, B, Z, No Complements	000 - No Special Options 901 - Custom Cable Length 1 ft./0.3M 902 - Custom Cable Length 2 ft./0.6M 903 - Custom Cable Length 3 ft./1M 905 - Custom Cable Length 5 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 925 - Custom Cable Length 25 ft./8.33M 930 - Custom Cable Length 30 ft./10M 933 - Custom Cable Length 33 ft./11M H00 - 5-24v in, 5-24v out hi-power standard (HX)



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MODEL	ROTOR BORE SIZE	PPR	MOUNTING	CONNECTOR OPTIONS	CHANNELS	SPECIAL OPTIONS
	MG - 10mm Bore MH - 11mm Bore MJ - 12mm Bore MK - 13mm Bore ML - 14mm Bore MM - 15mm Bore MN - 16mm Bore MP - 17mm Bore MQ - 18mm Bore MR - 19mm Bore MT - 20mm Bore MU - 21mm Bore MV - 22mm Bore MW - 23mm Bore MY - 24mm Bore MZ - 25mm Bore	A4 - 2048 PPR AT - 3072 PPR A6 - 3600 PPR AD - 4096 PPR A8 - 4800 PPR A9 - 5000 PPR A0 - Special PPR - Must Be Divisible by 8				



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