Avtron Bullseye32[™] Encoders



Designed for OEMs - Easy Mounting - No Bearings - OEM Programmable

Never Buy Another Hollow Shaft Encoder!

Replaces Hollow Shaft Models Directly

- No Moving Wearing Parts
- Universal 5-24V Operation
- LED & Remote Alarm Diagnostics
 - -40°C to +100°C Operation
 - OEM-Programmable PPR
 - 2 Year No-Hassle Warranty



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 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 <u>visual instruction sheet</u> (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.

Slash your encoder inventory. No need to stock multiple models: Bullseye32 is fully programmable - set your PPR, direction, and marker pulse.

Bullseye32 is not available to end-users – this is an OEM encoder only. So if you are a motor, drive, or machine-builder OEM, switch to Bullseye32 and find out what a true revolution in encoding can do for you!

OUTLINE DRAWING

0.17

"B5" Flange, "R" Connector -1.69 2.60 Ø5.00 B.C. 4x Ø0.31 Ø5.63

MORE AV32 ADVANTAGES

- Replaces HS25, HS35, HOG and many other hollow shaft models
- Replaces H25® and many other shafted, flange-mounted encoders L.
- Shrugs off dirt, oil, and water contamination
- Wide-Gap[™] technology I.
- No protective basket needed L
 - Includes wiring self-diagnostics and protection
- T Slashes installation time 1
- Survives shaft runout errors

AV32 SPECIFICATIONS

Electrical:

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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 OEM Programmable

Mechanical:

Check out our website for more detailed specifications, drawings, and Speed: 6000 RPM Max., (for higher speeds, consult factory) installation instructions. www.avtronencoders.com

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.

SELECTION GUIDE

AV32 Bullseye32TM PART NUMBERS AND AVAILABLE OPTIONS						
Model	Rotor Bore Optic	ons PPR	Mounting Style	Connector Options	Channels	Special Features
AV32 Bullseye32 TM	SAE Metric AC- 1/4" MA-4 AE- 5/16" MB-5 AF- 3/8" MC-6 AH- 7/16" MD-7 AK- 1/2" ML-9/16" AN- 5/8" MG-1 AP- 11/16" MH-1 AR- 3/4" MJ-1: AT- 13/16" MK-1 AV- 7/8" ML-1 AY- 15/16" MM-1 MP-1 MN-1 AV- 7/8" ML-1 AY- 15/16" MM-1 MV-2 MV-2 MV-2 MV-2 MV-2 MV-2 MV-2 MZ-2	nm AK- 80 PPR nm AH- 120 PPR nm AC- 128 PPR nm AC- 128 PPR nm AM- 200 PPR nm AM- 200 PPR nm AL- 240 PPR nm AN- 256 PPR nm AC- 360 PPR nm AG- 400 PPR nm AS- 600 PPR nm AS- 600 PPR fmm AS- 600 PPR fmm AS- 102 PPR fmm AJ- 960 PPR mm AV- 1020 PPR mm AV- 1400 PPR mm AV- 2008 PPR mm AV- 2008 PPR mm AV- 2048 PPR <th> B5- 4x 1/4-20 on 5.00 B.C. F1- Fan Cover - 10mm straight slots F2- Fan Cover - 10mm square grid F3- Fan Cover - 1/4" arced slots F5- Fan Cover - 5/16" straight slots P4- 4.5" NEMA 56C flange P6- 6.75" Recessed flange P8- 8.50" NEMA 180 FC flange </th> <th> C- 10 pin MS style w/Plug, Avtron pinout D- 10 pin MS style w/plug, Reverse Phasing (Dynapar HS35) W- Side Exit Cable (18" or special length)* Y- Top Exit Cable (18" or special length) G- 6 pin MS style w/plug, Avtron pinout (BEI) H- 6 pin MS style w/plug, Avtron pinout (BEI) H- 6 pin MS style w/plug, Reverse Phasing T- 7 pin MS style w/plug, Reverse Phasing T- 7 pin MS style w/plug, Reverse Phasing T- 10 pin Mini-MS style (Bayonet) w/plug S- 10 pin Mini-MS style (Bayonet) on 18" cable w/plug T- M23 12 pin w/o plug, L&L pinout M23 12 pin w/o plug, pinout (Hubner) "W" N/A w/mounting F1,F2,F3,F5 </th> <th> AA- All Signals: A, Ā, B, B, Z, Ž; (Z - 1/2 pulse width) AD- All Signals: A, Ā/, B, B, Z, Ž; (Z - 1/4 pulse width) BX- A, B, B (comple ments, no marker) EA- A, B, Z (no complements, marker) </th> <th>000- No Special Features 9xx- Special cable length, xx- ft/0.3m</th>	 B5- 4x 1/4-20 on 5.00 B.C. F1- Fan Cover - 10mm straight slots F2- Fan Cover - 10mm square grid F3- Fan Cover - 1/4" arced slots F5- Fan Cover - 5/16" straight slots P4- 4.5" NEMA 56C flange P6- 6.75" Recessed flange P8- 8.50" NEMA 180 FC flange 	 C- 10 pin MS style w/Plug, Avtron pinout D- 10 pin MS style w/plug, Reverse Phasing (Dynapar HS35) W- Side Exit Cable (18" or special length)* Y- Top Exit Cable (18" or special length) G- 6 pin MS style w/plug, Avtron pinout (BEI) H- 6 pin MS style w/plug, Avtron pinout (BEI) H- 6 pin MS style w/plug, Reverse Phasing T- 7 pin MS style w/plug, Reverse Phasing T- 7 pin MS style w/plug, Reverse Phasing T- 10 pin Mini-MS style (Bayonet) w/plug S- 10 pin Mini-MS style (Bayonet) on 18" cable w/plug T- M23 12 pin w/o plug, L&L pinout M23 12 pin w/o plug, pinout (Hubner) "W" N/A w/mounting F1,F2,F3,F5 	 AA- All Signals: A, Ā, B, B, Z, Ž; (Z - 1/2 pulse width) AD- All Signals: A, Ā/, B, B, Z, Ž; (Z - 1/4 pulse width) BX- A, B, B (comple ments, no marker) EA- A, B, Z (no complements, marker) 	000- No Special Features 9xx- Special cable length, xx- ft/0.3m





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