

Avtron HS40 Absolute Encoder

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Severe Mill Duty Magnetic Hollow Shaft Absolute Encoder, 5/8"-1 1/8" [16-30mm]

Magnetic Durability in a Compact Encoder

Fits Shafts 5/8"-1 1/8" [16mm-30mm]

Up to 27 Bit Resolution

Moisture-Proof, Shock Resistant Sensor

Singleturn or Multiturn

IP65 Rating

Massive Bearings, Severe Duty Seals

No Batteries or Gears!

-40° to 85°C Operation

3 Year No-Hassle Warranty

HS40

HS40 hollow shaft severe duty magnetic absolute rotary encoders offer unequalled durability. HS40 features massive bearings and the best shaft sealing system in the industry to keep your process running, through temperature cycling and liquid sprays. Moreover, the magnetic sensor can see through oil, dust and dirt that disable ordinary optical absolute encoders. Also available: solid shaft model (AV30), absolute+incremental combo units (AV45, HS45), as well as optical models (AV6A, HS6A) for ultra-precision applications.

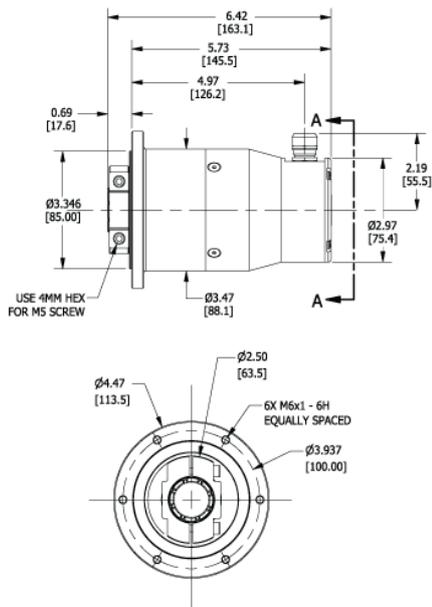
By utilizing Wiegand wire energy harvesting technology combined with magnetic sensors, Avtron has created an absolute encoder design which requires no batteries, long-term capacitors, glass disks, or gears!

Unlike other absolute encoders, HS40 allows a full size shaft fit; this allows it to easily fit on both NEMA and IEC frame motors with no special modification needed. Isolation from shaft currents is standard, and the interchangeable bore sizing inserts allow easy modification.

The HS40 features a broad range of industry standard communication protocols: from analog outputs to CANopen, Profibus, J1939, and SSI, you will find the communication protocol you need.

Get the absolutely best hollow shaft encoder available for your positioning application--pick HS40!

OUTLINE DRAWING



Check out our website for more detailed specifications, drawings, and installation instructions. www.avtronencoders.com

MORE HS40 ADVANTAGES

- No internal gearbox to wear out
- No coupling needed-mounts directly on motor shaft
- Zero-Position set button for SSI output
- Optional factory-programmable cam limits
- Optional 5V operation

MORE HS40 SPECIFICATIONS

Operating Power:

SSI: 5-30VDC; 30mA @ 24VDC, 125mA @ 5VDC

Analog V Out: 12-30VDC; 15mA @ 24V

Analog I Out: 15-30VDC; 40mA @ 24V

Output Format: Analog, Profibus, SSI, CANopen, J1939

Accuracy: $\pm 0.35^\circ$ (± 21 arc-min)

Temperature: -30°C to $+85^\circ\text{C}$

Environmental: IP65

Vibration: 10-1000Hz, 10G

Shock: 200G, 3mSec

Weight: 4.8 lb [2200g]

Certifications: CE



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SELECTION GUIDE

MODEL	COMMUNICATION BUS	HOUSING	HOLLOW SHAFT BORE SIZE	TURNS/BIT/MT	PPR / BITS PER TURN/ST	CONNECTOR	MOUNTING STYLE	SIGNAL CODING	ANTI-ROTATIONAL TETHER	SPECIAL OPTIONS
HS40	A - Analog Output (field-scalable) P - Profibus DP S - SSI Communication	X - Standard Aluminum Housing with standard paint 1 - Aluminum Housing with Steel-IT® stainless paint	C - 5/8" bore via insert D - 3/4" bore via insert E - 7/8" bore via insert F - 1" bore via insert G - 1 1/8" bore via insert S - 16mm bore via insert T - 18mm bore via insert V - 19mm bore via insert W - 20mm bore via insert Y - 25mm bore via insert 4 - 28mm bore via insert 3 - 30mm bore via insert U - 5/8" thru 1-1/8" bore insert sizes included (Universal USA) Z - 16mm thru 30mm bore insert sizes included (Universal Metric):	X - 0 Turns/0 bits- Single Turn A - 16 Turns/4 bits- (Field- Scalable for Analog 0.03 to 65536 turns) 2 - 4096 Turns/12 bits 3 - 8192 Turns/13 bits 4 - 16384 Turns/14 bits 5 - 32768 Turns/15 bits	2 - 4096 Counts per Revolution/12 bits 3 - 8192 Counts per Revolution/13 bits	A - 1xM12/5 pin w/o Plug B - 2xM12/5 pin w/o Plugs C - 3xM12 (4/5/5 or 4/4/4) pin w/o Plugs D - 2xM12/4/5 pin w/o Plugs E - M12/8 pin w/o Plug F - M23/12 pin w/o Plug G - M27/26 pin w/o Plug H - RJ45 (on 1m cable) S - 1x Cable Entry (rear terminal box w/side exit cord grip) J - 2x Cable Entry (rear terminal box w/2 side exit cord grips) K - 3x Cable Entry (rear terminal box w/3 side exit cord grips) W - 1m Cable, side exit M - M23/8 pin Hengstler w/o Plug N - M23/8 pin Stegmann w/o Plug Q - M23/8 pin Kubler w/o Plug R - M23/16 pin w/o Plug	E - End of Shaft (EOS) Mounting	1 - Binary Bit Coding 2 - Gray Coding (SSI Only) 3 - 0-5V (Analog Only) 4 - 0-10V (Analog Only) 5 - 4-20mA (Analog Only) 6 - 0-20mA (Analog Only) 7 - 0.5-4.5V (Analog Only) 8 - 0.5-9.5V (Analog Only)	D - T-bolt Fan Cover Tether (NEMA style) E - 4.5" NEMA C-Face Tether F - 8.5" NEMA C-Face Tether G - Threaded rod arm kit, adjustable 70-500mm (4.25"-12") H - Fan cover T-bolt and 8.5" NEMA C-face tethers M - Fan cover T-bolt and 4.5"/6.75" NEMA C-face tethers P - Threaded rod arm kit, fixed 70mm length T - Threaded rod arm kit, adjustable 70-500mm w/T-bolt for fan cover U - Universal Tether/Arm Kit (includes all) X - No Tether	000 - No Special Features 901 - 1'/0.3m Cable 902 - 2'/0.6m Cable 903 - 3'/0.9m Cable 905 - 5'/1.5m Cable 910 - 10'/3m Cable 915 - 15'/4.5m Cable 920 - 20'/6m Cable 925 - 25'/7.5m Cable 930 - 30'/9m Cable 933 - 33'/10m Cable



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