



Mill Duty Magnetic Hollow Shaft Encoder

Magnetic Durability in a Compact Encoder

- Fits shafts 1/2" to 1 1/8"
 - Simple Installation
- Up to 5000 PPR Replaces Competitive Models
- without Rewiring
- No Solder Industrial EPIC Connector Available
- Fits end of shaft and through shaft applications
 - High Power Outputs Available
 - -20°C to +85°C Operation
 - **Optional Dual Isolated Outputs**
 - 2 Year No-Hassle Warranty
- Fully Insulated from Motor Shaft Currents

HS35M

HS35M encoders fit shafts from 1/2" to 1 1/8" [12mm to 30mm] easily, using a durable shaft insert. Models from 1/2" to 1" [12mm to 20mm] may be resized by replacing the insert, enabling our factory, distributors, and customer stockrooms to swiftly meet any need. The engineered resin housing is immune to most chemicals, and eliminates any possibility of shaft current or grounding problems.

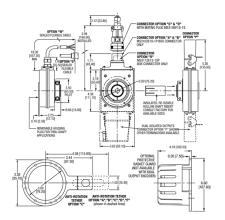
Avtron encoders have superior shaft seals and bearings that stay sealed to keep out contamination caused by temperature cycling and liquid sprays. The HS35M offers high power outputs that can drive cables over 1000' [300m] with full short circuit and overvoltage protection!

The HS35M features two large bearings, one at each end of the enclosure for strength and resistance to damage. Many competitors use only a single bearing, or two tiny bearings side by side.

Often, optical encoders fail because of dust or water contamination that prevents the sensor from seeing the optical disk. The HS35M advanced magnetic technology sees through contamination and the fully sealed circuit design ensures your machine keeps working, even in mill environments.

The HS35M offers magnetic performance and moisture resistance, in a compact package, and for a great price. Select an Avtron HS35M and upgrade your machine today!

OUTLINE DRAWING



MORE HS35M ADVANTAGES

- All digital design; no adjustments or potentiometers
- Innovative shaft ring retains collar during installation
- Advanced sensor technology
- Dual bearings, spaced farther apart, with synthetic lubricant for longer life
- No extra charge for signal complements and marker pulse (A,A–, B,B–, Z,Z–)
- Fully insulated from motor shaft currents
- Models 1/2" to 1" [12mm-20mm] can be resized by interchanging inserts
- Optional basket guard adds even more protection

MORE HS35M SPECIFICATIONS

Operating Power: Volts: 5 - 24 VDC; Current: 80mA, no load Output Format: A Quad B with marker (A, /A, B, /B, Z, /Z) Frequency Range: 0 to 165 kHz PPR: 1 - 5000 standard (for other PPR needs, consult factory) Speed: 4700 RPM Max., (for higher speeds, consult factory) Temperature: -20° to 85°C Environmental: IP65; NEMA 13 Rating Vibration: 5-2000Hz, 20Gs Shock: 50G, 11ms duration Weight: Single: 1.4 lbs. [635 g] Dual: 2.0 lbs. [905 g] Certifications: CE

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	LEFT OUTPUT PPR	RIGHT OUTPUT PPR	LINE DRIVER	HOLLOW SHAFT BORE SIZE	CONNECTOR OPTIONS	MOUNTING	PROTECTION	ANTI- ROTATIONAL TETHER	CHANNELS AND MODIFICATIONS
HS35M	F - 60 PPR T - 80 PPR G - 100 PPR H - 120 PPR K - 200 PPR N - 250 PPR N - 250 PPR N - 256 PPR N - 256 PPR S - 600 PPR G - 500 PPR C - 500 PPR U - 720 PPR V - 1000 PPR V - 1000 PPR V - 1000 PPR Z - 1200 PPR Z - 1200 PPR Z - 1200 PPR G - 1800 PPR G -	X - No Right Output F - 60 PPR G - 100 PPR H - 120 PPR L - 240 PPR N - 255 PPR P - 300 PPR E - 350 PPR S - 600 PPR C - 500 PPR S - 600 PPR S - 600 PPR Y - 1024 PPR Z - 1200 PPR H - 1250 PPR C - 1500 PPR G - 150	6 - 5-24/ In/Out (7272) 8 - 5-24/ In/Out (HX) 9 - 5-24/ In, 5/ Out (7272)	B - 1/2 In, via insert C - 5/8 In, via insert E - 7/8 In, via insert E - 7/8 In, via insert E - 7/8 In, via insert Bore) G - 1-1/8 In, (Native Bore) U - 1/2 In, thru 7/8 In, Inserts (Universal USA) P - 12mm via insert C - 14mm via insert S - 16mm via insert V - 20mm via insert V - 20mm via insert V - 20mm via insert V - 20mm via insert S - 16mm via insert V - 20mm via insert V - 20mm via insert S - 16mm via insert V - 20mm via insert V - 20mm via insert S - 16mm via insert N - 20mm via insert V - 20mm via insert V - 20mm via insert N - 20mm via insert V - 20mm via insert N - 20mm via insert V - 20mm via insert N - 20mm v	A - 10 Pin MS Style Wo Plug, Avtron/BEI Phasing B - 10 Pin MS Style With Plug, Dynapar HS35 Phasing C - 10 Pin MS Style with Plug, Dynapar HS35 Phasing E - 6 Pin MS Style on 18 in. Cable, With Plug, Avtron/BEI Phasing F - 6 Pin MS Style on 18 in. Cable, with Plug, Avtron/BEI Phasing G - 6 Pin MS Style on 18 in. Cable, with Plug, Avtron/BEI Phasing G - 6 Pin MS Style on 18 in. Cable, with Plug, Dynapar HS35 Phasing G - 6 Pin MS Style on 18 in. Cable, with Plug, Dynapar HS35 Phasing J - 7 Pin MS Style on 18 in. Cable, with Plug, Dynapar HS35 Phasing J - 7 Pin MS Style on 18 in. Cable, with Plug, Dynapar HS35 Phasing J - 7 Pin MS Style on 18 in. Cable, with Plug, Dynapar HS35 Phasing M - 7 Pin MS Style on 18 in. Cable, with Plug, Dynapar HS35 Phasing M - 7 Pin MS Style on 18 in. Cable, with Plug, Dynapar HS35 Phasing M - 7 Pin MS Style on 18 in. Cable, With Plug, Dynapar HS35 Phasing N - 7 Pin MS Style on 18 in. Cable, With Plug, Dynapar HS35 Phasing N - 7 Pin MS Style Or 10 Pin Mini-Epic Style with Plug L + 10 Pin Mini-Epic Style with Style D + 10 Pin Mini-Epic Style with Plug L + 10 Pin Mini-Epic Style Wi	U - Universal (Thru & End of Shaft)	0 - No Protective Basket 1 - Protective Basket Included	X - No Tether Hardware A - 0.25 inch 20 T- Bolt Fan Cover Tether B - 0.3125 inch 18 T- Bolt Fan Cover Tether C - 0.375 16 T-Bolt Fan Cover Tethers - A, B, C E - 4.5 inch NEMA SGC Face Tether F - 8.5 inch FC Accessory Face Tether G - 12 inch - 300mm Threaded Rod Torque Arm H - D and E Tether Kits M - D and E Tether Kits M - D and E Tether Kits N - Rotational Clamp for adjusting marker P - 115mm Threaded Rod Torque Arm Tether, replaces Nothstar HS35M, HS035 R - Pin & Block, BEI compatible T - 3 inch - 76mm Threaded Rod Torque Arm 1 - 10mm Square Grid Fan Cover Tether (HS35Tether-1) U - All Tether Kits A- F	 A00 - Standard, No Special Features, All Channels A, AJ, B, BJ, Z, ZJ J00 - All Channels (A, A/, B, B/, Z, ZJ) 114 Gated Marker Pulse A High & B High A0W - Connector on Cable, Al-tannels (A, A, B, BV, Z, ZJ) B0W - Connector on Cable, channels (A, A, B, BV, Connector on Cable, channels (A, A, B, BV, Connector on Cable, channels (A, A, B, BV, Connector on Cable, channels (A, B) (no compliments) F0W - Connector on Cable, channels (A, B) (no compliments) F0W - Connector on Cable, All channels (A, AV, B, BV, Z, ZJ) 901 - 11 / J0.3m Cable, All channels (A, AV, B, BV, Z, ZJ) 905 - 57 / 1.5m Cable, All channels (A, AV, B, BV, Z, ZJ) 905 - 57 / 1.5m Cable, All channels (A, AV, B, BV, Z, ZJ) 905 - 57 / 3m Cable, All channels (A, AV, B, BV, Z, ZJ) 910 - 10 / 3m Cable, All channels (A, AV, B, BV, Z, ZJ) 920 - 20 / fom Cable, All channels (A, AV, B, BV, Z, ZJ) 920 - 20 / fom Cable, All channels (A, AV, B, BV, Z, ZJ) 930 - 30 / 9m Cable, All channels (A, AV, B, BV, Z, ZJ) 930 - 30 / 9m Cable, All channels (A, AV, B, BV, Z, ZJ) 930 - 30 / 9m Cable, All channels (A, AV, B, BV, Z, ZJ) 930 - 30 / 9m Cable, All channels (A, AV, B, BV, Z, ZJ) 930 - 30 / 9m Cable, All channels (A, AV, B, BV, Z, ZJ)



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