Rev: 02-01-22





Mill Duty Magnetic Hollow Shaft Encoder

Magnetic Durability at a Great Price!

- Fits shafts 1/2" to 1 1/8"
 - Simple Installation
 - □ Up to 3072 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
 - Fully Insulated from Motor Shaft

 Currents
 - 1 2 Year No-Hassle Warranty

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.

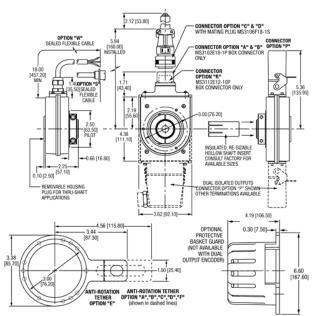
Avtron encoders have superior shaft seals and bearings that stay sealed to keep out contamination caused by temperature cycling and liquid sprays. The HS35M offers high power outputs that can drive cables over 1000' [300m] with full short circuit and overvoltage protection!

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

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 - 3072 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

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].

Check out our website for more detailed specifications, drawings, and Specifications and features are subject to change without notice. installation instructions. www.avtronencoders.com

SELECTION GUIDE

	HS35M PART NUMBERS AND AVAILABLE OPTIONS													
Model	Left & Right Output PPR		Line Driver	Bore Size		Connector Options	Mounting Style	Protection	Anti-Rotation Tether Options		Cha	nnels	Special Features	
HS35M			Std. W- B- 1/2" Y- C- 5/8" 3- D- 3/4" 6- E- 7/8" F- 1"* G- 11/8"* 7- P- 12mm Q- 14mm	V- 19mm W- 20mm Y- 25mm* 3- 30mm* 6- 16mm* EOS (Straight) 7- 17mm* EOS (10:1 Taper) ** No inset "Only av		U- Universal End-of-Shaft & Thru Shaft ilicable on dual output. rt used for Options "F" ailable with 0W specia		X- None A- Fan cover, 1/4-20 B- Fan cover, 5/16-18 C- Fan cover, 3/8-16 D- Fan cover, all E- 4.5° or 6.75° C-Face F- 8.5° C-Face G- 12° (300mm) Threaded Rod Tether M 4.5° C-Face or Fan Cover		B- A,A- D- A,A- E- A,B,F- A,B- J- All S A,A- 1/4- Marl r A h h 4- Sper Ente undd feat feat elege und Feat Feat W/ C	,B,B-= (≪ Z∝ ignals ,B,B-,Z,Z- Pulse ker to igh/B-High cial PPR r codes er special ures	00- None 0W- Connector on 18" cable: See Below		
Connector Options Mounted on Encoder Mounted on 18" cable (0W)														
Termi		//23 2-Pin	10 Pin MS	10 Pin EPIC	10 Pin mini MS	10 Pin MS«	6 Pin MS«	7 Pin M		8 Pin M12«	10 Pin EPIC«	10 Pin mini MS«	12 Pin M23	
		/o plug B	- w/o plug (std. phasing) I- w/o plug (Dynal HS35 phasing) I- "A" w/ plug I- "B" w/ plug	P- w/ plug V- w/o plug par	R- w/ plug		E- w/o plug (std. phasing) F- w/o plug (Dynapar HS35 phasing) G- "E" w/ plug H- "F" w/ plug	J- w/o plug (std. phasin K- w/o plug (D HS35 phasi M- "J" w/ plug N- "K" w/ plug	ynapar ng)	T- w/o plug (Turck Pinout) U- w/o plug (US Pinout)	Z- w/ plug	S- w/ plug	2- w/o plug (L&L Hubner pinout)	



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encoderhelpdesk@nidec-industrial.com +1 216-642-1230 - www.avtronencoders.com Features and specifications are subject to change without notice. EU-SMARTTM, SMARTSafeTM, SMARTTachTM, THIN-LINETM, WIDE-GAPTM, SAFETachTM and BULLSEYE32TM are trademarks of Nidec Industrial Solution. All other trademarks and registered trademarks are the property of their respective owners. Nidec Industrial Solutions' standard warranty applies. All dimensions approximate.