Avtron HS35A Encoders



Light Mill Duty Optical Hollow Shaft Encoder: 1/2"-1" [12mm-25mm]

Tough and Compact!

 Fits shafts 1/2" to 1"
 Simple Installation
 Up to 5000 PPR
 Unbreakable Optical Disk
 Wide-Gap Technology: Up to 8X larger gap between sensor and rotor
 Replaces Competitive Models without Rewiring
 Fits end of shaft and through shaft applications

I IP65/Nema 4, 13 Rating: Dust and Liquid Tight

Superior Bearings and Seals

-20°C to +100°C Operation

1 2 Year No-Hassle Warranty

HS35A

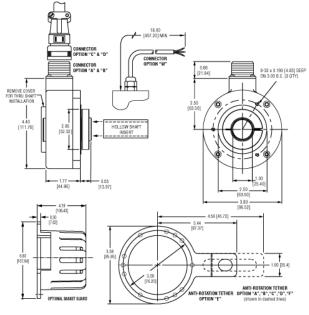
HS35A encoders fit shafts from 1/2" to 1" easily, using a durable shaft insert. Units may be resized by replacing or removing the insert, enabling our factory, distributors, and customer stockrooms to swiftly meet any need. The shaft insert and insulated bearings also provide isolation from motor shaft currents, while permitting case grounding to meet NEC requirements.

Avtron encoders have superior shaft seals and bearings that stay sealed to keep out contamination caused by temperature cycling and liquid sprays. Our encoder seals are protected by mechanical barriers to prevent flexing or failure, and Avtron's superior bearings feature synthetic lubricants for even longer life.

Many competitive optical encoder designs risk sensor damage from any vibration or shock: sensors ride less than four thousandths of an inch from the thin, often flexible, optical disk spinning at full motor speeds. Some designs even use thin glass disks in "industrial" products! Avtron uses only unbreakable disks and a sensor to disk gap over 8X larger than the competition.

Our optical HS35A encoders use superior sensor, disk, bearing, and seal technology to give top performance in industrial conditions. Select an Avtron HS35A today!

OUTLINE DRAWING



MORE HS35A ADVANTAGES

- All digital, fully integrated design
- No mechanical adjustments or trim potentiometers
- Innovative shaft ring retains collar during installation
- Advanced sensor technology
- Superior bearings with synthetic lubricant for longer life
- No extra charge for signal complements and marker pulse (A,A-, B,B-, Z,Z-)
- Insulated from motor shaft currents
- Models can be resized by interchanging inserts
- Optional basket guard adds even more protection
 - optional basket guard adds even more protection

HS35A SPECIFICATIONS

Operating Power: Volts: 5 - 28 VDC; Current: 50mA, no load Output Format: A Quad B with marker (A,A-, B,B-, Z,Z-) Frequency Range: 0 to 125 KHz PPR: 100 - 5000 standard Speed: 6000 RPM Max., (for higher speeds, consult factory) Temperature: -20° to 100°C Environmental: IP65; Nema 4, 13 Rating Vibration: 5-2000Hz Shock: 50G, 11mS duration Weight: 1.6 lbs [730g]

All dimensions are in inches [millimeters].

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

Specifications and features are subject to change without notice.

SELECTION GUIDE

HS35A PART NUMBERS AND AVAILABLE OPTIONS											
Model	PPR	Line Driver	Bore Options	Connector Options		Mounting Style		Protection	Anti-Rotation Tether Options	Channels	Special Features
HS35A	K- 200 Z- 1200 L- 240 3- 2000 M- 250 4- 2048 Q- 500 8- 4000 R- 512 D- 4096	 2- 5-28V, open collector (7273) 4- 5-28V in, 	0- Non-std. P- 12mm B- 1/2" R- 15mm C- 5/8" S- 16mm D- 3/4" W-20mm E- 7/8" F- 1" U- Universal 1/2" to 7/8" (all U.S. inserts) Z- Universal 12mm to 20mm (all metric inserts)	₩ -18"	flex. cable			0- None 1- Basket	 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 M- 4.5" C-Face or Fan Cover U-Universal (all tether options) 	A- A,Ā,B,Ē, Z,Ž B- A,Ā,B,Ē« D- A,Ā« E- A,B,Z« F- A,B«	000- None 9xx- Specify cable length xx=feet (use w/ option "W")
					Connecto				or Options 7 Pin MS ^{ee} 8 Pin M12		
					A- w/o plug (std. phasing) E B- w/o plug (Dynapar F HS35 phasing) C- "A" w/ plug C		 E- w/o plug (std. phasing) F- w/o plug (Dynapar HS35 phasing) G- "E" w/ plug 			sing) T- w/o plug (Turck Pinout)	

All dimensions are in inches [millimeters].

Specifications and features are subject to change without notice.



Nidec-Avtron Makes the Most Reliable Encoders in the World 8901 E. PLEASANT VALLEY ROAD + INDEPENDENCE, OHIO 44131-5508

TELEPHONE: (1) 216-642-1230 • FAX: (1) 216-642-6037 E-MAIL: tachs@nidec-avtron.com • WEB: www.avtronencoders.com All dimensions are in inches [millimeters]. Specifications and features are subject to change without notice. EU-SMART™, SMARTSafe™, SMARTach II™, THIN-LINE™, THIN-LINE II™, WIDE-GAP™, and BULLSEYE32™ are trademarks of Nidec Avtron Automation. All other trademarks and registered trademarks are the property of their respective owners.