

ERMEC Avtron Model HS35A

Distribución de Componentes Eléctricos y Electrónicos

Optical, Hollow Shaft Encoder



Tough and Compact!

- Fits shafts 1/2" to 1"
- Simple Installation
- 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
- IP65/Nema 4, 13 Rating: **Dust and Liquid Tight**
- Superior Bearings and Seals
- -20°C to +100°C Operation
- 2 Year No-Hassle Warranty

HS35A encoders fit shafts from 1/2" to 1" easily, using a durable shaft insert. Models from 1/2" to 7/8" [12mm to 20mm] may be resized by replacing the insert, enabling our factory, distributors, and customer stockrooms to swiftly meet any need. The shaft insert also provides 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!

ERMEC, S.L. BARCELONA C/ Francesc Teixidó, 22 Parque Empresarial Granland E-08918 Badalona (Sur)

Tel.: (+34) 902 450 160 Fax: (+34) 902 433 088

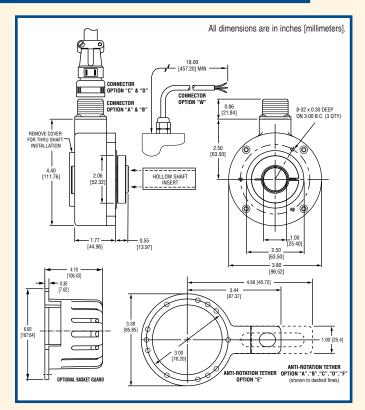
ERMEC, S.L. MADRID C/ Sagasta, 8 1ª planta E-28004 Madrid

PORTUGAL portugal@ermec.com



HS35A Optical Hollow Shaft Encoder (1/2" to 1") [12mm to 25mm]

OUTLINE DRAWING



Check out our web site for more detailed specifications, drawings, and installation instructions.

www.avtronencoders.com

SELECTION GUIDE

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,Ā, B,B, Z,Z)
- Insulated from motor shaft currents
- Models 1/2" to 7/8" can be resized by interchanging inserts
- · 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 $(A, \overline{A}, B, \overline{B}, Z, \overline{Z})$

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]

C € Pending



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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 Y - 1024	collector (7273) 4 - 5-28V in,	B - 1/2" R - 15mm	A- 10 pin MS w/o plug (Std. phasing) B- 10 pin MS w/o plug (Dynapar HS35 phasing) C- 10 pin MS w/ plug (Std. phasing) D- 10 pin MS w/ plug (Dynapar HS35 phasing) W-18" flex. cable	End-of-Shaft	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 or Fan Cover U- Universal (all tether options)	A - A,Ā B,Ē Z,₹	000- None 9xx- Specify cable length xx=feet (use w/ option "W")

All dimensions are in inches [millimeters]. Specifications and features are subject to change without notice.

