



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

Optical Precision in a Compact Encoder

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

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

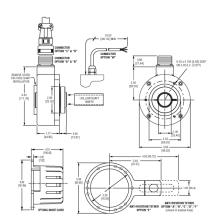
HS35A encoders fit shafts from 1/2" to 1" easily, using a durable shaft insert. Units may be resized by replacing or removing the insert, enabling our factory, distributors, and customer stockrooms to swiftly meet any need. The shaft insert and insulated bearings also provide isolation from motor shaft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

MORE 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 Vibration: 5-2000Hz Shock: 50G, 11ms duration
Weight: 1.6 lbs [730g]
All dimensions are in inches [millimeters].

Specifications and features are subject to change without notice.

* Please consult factory for temperature/speed derating

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



SELECTION GUIDE

MODEL	PPR	LINE DRIVER	HOLLOW SHAFT BORE SIZE	CONNECTOR OPTIONS	MOUNTING	PROTECTION	ANTI- ROTATIONAL TETHER	CHANNELS	MODIFICATION
335A	G - 100 PPR K - 200 PPR L - 240 PPR M - 250 PPR G - 360 PPR C - 500 PPR S - 500 PPR V - 900 PPR V - 1002 PPR V - 1002 PPR S - 12000 PPR J - 1204 PPR S - 2000 PPR S - 5000 PPR S - 5000 PPR D - 4096 PPR D - 5000 PPR	1 - 5-28v In/Out (7272) 2 - 5-28v In/OC Out (7273) 4 - 5-28v In, 5v Out (7272)	B - 1/2 in. bore via insert C - 5/8 in. bore via insert D - 3/4 in. bore via insert E - 7/8 in. bore via insert III insert E - 7/8 in. bore via insert U - 1/2 in. thru 1 in bore (Universal USA) P - 12mm via insert C - 14mm via insert R - 15mm via insert V - 19mm via insert V - 25mm via	A - 10 pin MS style W/o Plug, Avtron/BEI Phasing B - 10 pin MS style W/o Plug, Dynapar HS35 Phasing C - 10 pin MS style W/o Plug, Avtron/BEI Phasing D - 10 pin MS style W/plug, Avtron/BEI Phasing E - 6 pin MS style W/plug, Dynapar HS35 Phasing E - 6 pin MS style W/o Plug, Avtron/BEI Phasing G - 6 pin MS style W/o Plug, Dynapar HS35 Phasing G - 6 pin MS style W/o Plug, Dynapar HS35 Phasing G - 6 pin MS style W/o Plug, Dynapar HS35 Phasing F - 6 pin MS style W/o Plug, Dynapar HS35 Phasing M - 7 pin MS style W/plug, Dynapar HS35 Phasing M - 7 pin MS style W/o Plug, Dynapar HS35 Phasing M - 7 pin MS style W/o Plug, Dynapar HS35 Phasing M - 7 pin MS style W/o Plug, Dynapar HS35 Phasing N - 7 pin MS style W/o Plug, Dynapar HS35 Phasing N - 7 pin MS style W/o Plug, Dynapar HS35 Phasing N - 7 pin MS style W/o Plug, Dynapar HS35 Phasing N - 7 pin MS style W/o Plug, Dynapar HS35 Phasing N - 7 pin MS style W/o Plug, Dynapar HS35 Phasing N - 10 pin Mini-MS style Twist-Lock (Baldor/Bayonet Style) W/o plug, Avtron/BEI Phasing On cable T - M12/8 pin US Pinout W/o plug Avtron Phasing U - M12/8 pin US Pinout W/o plug Avtron Phasing V - Cable (18 in. or special length) Y - 18 in ch Sealed Code Z - Mini-Epic Style Connector with Plug, On 18° Cable Onlin-Epic Style Connector with Plug, On 18° Cable Onlin-Epic Style Connector with Plug, On 18° Cable Onlin-Epic Style Connector with Plug On 18° Cable Onlin-Epic Style Connector with Plug Onlin-Epic Style Connector with Plug Onlin-Epic Style Online O	U - Universal (Thru & End of Shaft) X - No rear cover cap, thru or end of shaft mounting	0 - None 1 - Basket	X - No Tether A - 1/4 in - 20 T-Bolt Fan Cover Tether B - 5/16 in - 18 T-Bolt Fan Cover Tether C - 3/8 in - 16 T-Bolt Fan Cover Tether C - 3/8 in - 16 T-Bolt Fan Cover Tether C - 1/2 in - 1/2	A - All Channels (A, A/, B, B/, Z, Z/) B - A, I/A, B, B((complements, no marker) D - A, I/A (single phase w/complement, no marker) E - A, B, Z (no complements, marker) F - A, B (no complements, marker) F - A, B (no complements, marker)	000 - No Special Features 000V - Connector o Cable (obsolete bu of Sill available-use W00 or WXX option W00 - Connector o 18" Cable 901 - 11 f. Cable 901 - 11 f. Cable 902 - 2 ft./0.6m Cable 903 - 3 ft./0.9m Cable 910 - 10 ft./3m Cable 920 - 2 ft./6m Cable 920 - 3 ft./1.5m Cable 920 - 3 ft./1.5m Cable 930 - 3 ft./1.5m Cable 9