

Avtron HS35A Encoders



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

Magnetic Durability 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 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

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!

SELECTION GUIDE

MODEL	PPR	LINE DRIVER	HOLLOW SHAFT BORE SIZE	CONNECTOR OPTIONS	MOUNTING	PROTECTION	ANTI-ROTATIONAL TETHER	CHANNELS	MODIFICATIONS
HS35A	G - 100 PPR K - 200 PPR L - 240 PPR M - 250 PPR E - 360 PPR S - 600 PPR V - 900 PPR W - 1000 PPR Y - 1024 PPR Z - 1200 PPR 3 - 2000 PPR 4 - 2048 PPR 5 - 2500 PPR 8 - 4000 PPR D - 4096 PPR 9 - 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 F - 1 in. native bore U - 1/2 in. thru 1 in bore (Universal USA) P - 12mm via insert Q - 14mm via insert R - 15mm via insert S - 16mm via insert V - 19mm via insert W - 20mm via insert Y - 25mm native bore Z - 12mm thru 20mm bore (Universal metric)	A - 10 pin MS style w/o Plug, Avtron/BEI Pinout B - 10 pin MS style w/o Plug, Dynapar HS35 pinout C - 10 pin MS style w/Plug, Avtron/BEI pinout D - 10 pin MS style w/plug, Dynapar HS35 pinout E - 6 pin MS style w/o Plug F - 6 pin MS style w/o Plug, Dynapar HS35 Pinout G - 6 pin MS style w/plug, Avtron/BEI pinout H - 6 pin MS style w/plug, Dynapar HS35 pinout J - 7 pin MS style w/o Plug, Avtron/BEI Pinout K - 7 pin MS style w/o Plug, Dynapar HS35 Pinout M - 7 pin MS style w/plug, Avtron/BEI pinout N - 7 pin MS style w/plug, Dynapar HS35 pinout R - 10 pin Mini-MS style Twist-Lock (Baldor/Bayonet Style) w/o plug, Avtron/BEI pinout S - 10 pin Mini-MS style Twist-Lock (Baldor/Bayonet Style) w/o plug, Avtron/BEI pinout on cable T - M12 Turck Pinout w/o plug 2 - M12 Turck Pinout w/ plug (reverse phasing) U - M12 US Pinout w/o plug V - M12 US Pinout w/ plug W - Cable (18 in. or special length) Y - 18 inch Sealed Cable with Flying Leads, BEI Color Code	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 D - All T-bolt Fan Cover Tethers E - 4.5 in. C-Face Tether F - 8.5 in. C-Face Tether G - 12 in. Threaded Rod Tether M - Fan cover & 4.5" C-face mount N - Marker-pulse-orienting Tether R - Pin & Block, BEI compatible U - A-F All Tethers	A - All Channels (A, A/, B, B/, Z, Z/) B - A, /A, B, /B (complements, no marker) D - A, /A (single phase w/complement, no marker) E - A, B, Z (no complements, marker) F - A, B (no complements, no marker)	000 - No Special Features 00W - Connector on Cable (obsolete but still available-use W00 or WXX option) W00 - Connector on 18" Cable W01 - Connector on 1 ft Cable 901 - 1 ft./0.3m Cable 902 - 2 ft./0.6m Cable 903 - 3 ft./0.9m Cable 904 - 4 ft./1.2m Cable 905 - 5 ft./1.5m Cable 910 - 10 ft./3m Cable 915 - 15 ft./4.5m Cable 920 - 20 ft./6m Cable 925 - 25 ft./7.5m Cable 933 - 33 ft./10m Cable 930 - 30 ft./9m Cable



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MODEL	PPR	LINE DRIVER	HOLLOW SHAFT BORE SIZE	CONNECTOR OPTIONS	MOUNTING	PROTECTION	ANTI-ROTATIONAL TETHER	CHANNELS	MODIFICATIONS
				Z - Mini-Epic Style Connector with Plug, on 18" Cable 1 - 15 pin DIN on cable (not recommended for new applications)					



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