Avtron HS35X Encoder



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

Magnetic Durability in a Compact Encoder

Fits Shafts 1/2" to 1" [12mm-25mm]
Up to IP66
Up to 10,000 PPR
Replaces Competitive Models Without Rewiring
-40°C to +100°C Operation
2 Year No-Hassle Warranty
Full Protection from Miswiring
Onboard Diagnostics with LED
Drives up to 1000 feet [330m] cable

HS35X

Finally--the breakthrough you have been waiting for--a HS35 magnetic encoder, high IP rating AND a super-competitive price! The HS35X is dropin compatible with all competitive HS35 size encoders, making replacements a breeze!

HS35X encoders fit shafts from 1/2" to 1" [12mm-25mm] 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 isolated bearings also provide isolation from motor shaft currents.

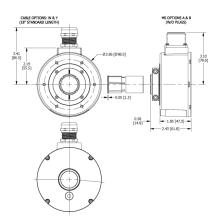
Optical encoders suffer so many failures--broken glass disks, misaligned masks, vibration problems, condensing liquids that confuse the optics...the list never ends! Our magnetic technology is fully protected against dust, dirt, liquids and condensation. Our Wide-Gap electronics prevent rotor-sensor crashes too!

Who needs 6 different connector types on their machinery! Use the HS35X universal cable adapter system to use the same connector on every encoder!

Wondering if your encoder is working right? The HS35X has full diagnostics, informing you of signal quality, and ensuring there are no shorts in the wiring to or from the encoder.

Step up to the HS35X without paying more than your current price for a weak optical encoder!

OUTLINE DRAWING



MORE HS35X ADVANTAGES

- All digital, fully integrated design
- 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
- Shaft ring retains clamping collar during installation
- Wide-Gap Technology: Up to 10X larger gap between sensor and rotor
 Fits End of Shaft and Through Shaft Applications

MORE HS35X SPECIFICATIONS Operating Power: Volts: 6-30 VDC; Current: 80mA, no load; 5V option

available. Output Format: A Quad B with gated marker (A,/A, B,/B, Z,/Z) Frequency Range: 0 to 250 kHz @ 6V & 1m cable PPR: 4 - 10000 standard* (for other PPR needs, consult factory) Speed: 6000 RPM Max., (for higher speeds, consult factory) Temperature: -40° to 100°C** Environmental: Up to IP66 Shaft Current Isolation: 2500VRMS Vibration: 10-2000Hz, 17Gs Shock: 275G, 6mS duration Axial Bearing Load: 500 N Radial Bearing Load: 1200 N Weight: 2.5 lbs. [635 g] approx. Certifications: CE, UL Fire & Safety

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

*Requires special ordering code ** Derating for higher speeds may apply

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



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SELECTION GUIDE

MODEL PPR	LINE DRIVER	HOLLOW SHAFT BORE SIZE	CONNECTOR OPTIONS	MOUNTING	PROTECTION	ANTI- ROTATIONAL TETHER	CHANNELS	MODIFICATIONS
5X G - 100 PPR K - 200 PPR L - 240 PPR M - 250 PPR G - 550 PPR V - 900 PPR V - 1000 PPR Y - 1024 PPR Z - 2000 PPR 3 - 2000 PPR B - 4096 PPR 9 - 6000 PPR 2 - 6192 PPR 0 - 5pecial PPR (Gelect 4xx optic code for PPR)		insert C - 5/8 in. bore via	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 T - M12 US Pinout w/o Plug 2 - M12 US Pinout w/ Plug Plug Pinout W - K12 US Pinout w/ Plug W - K12 US Pinout w/ Plug (Revrese Phasing) W - Cable (18 in. or special length) Y - 18 inch Sealed Cable with Flying Leadas, BEI Color Code	U - Universal (Thru & End of Shaft)	0 - None 1 - Basket	X - No Tether A - 1/4 in20 T-Bolt Fan Cover Tether B - 5/16 in18 T-Bolt Fan Cover Tether C - 3/8 in16 T-Bolt Fan Cover Tether D - All T-bolt Fan Cover Tether F - 8.5 in. C-Face Tether G - 12 inch - 300mm Threaded Rod M - Fan Cover & 4.5° C-Face Mount N - Marker-pulse- orienting Tether P - 115mm Threaded Rod Torque Arm Tether, P - 10 Such - 26mm Threaded Rod Torque Arm Tether, N - Sin & C-Face Torque Arm Tether, N - Sin & Core M - Sin & Core Notal Sin & Sin &	A - All Channels (A, /A, B, /B, Z, /Z)	000 - No Special Features CEE - Add 18" adapter 10 pin MS 6 pin MS, Single Ended, (A, B, Z con CEB - Add 18" adapter 10 pin MS 6 pin, Differential, 1 Marker Pulse (A, A B, B' Only) CLB - Add 18" adapter 10 pin MS 7 pin MS, Single Ended, (A, B, Z CuB - Add 18" adapter 10 pin MS 7 pin MS, Single Ended, (A, B, Z CuB - Add 18" adapter 10 pin MS 7 pin MS, All Channels (A, A', B, B, Z, Z) CSE - Add 18" adapter 10 pin MS 7 pin MS, All Channels (A, A', B, B, Z, Z) CSE - Add 18" adapter 10 pin MS 7 pin MS, All Channels (A, A', B, B, Z, Z) CZA - Add 18" adapter 10 pin MS 7 pin MS, 2 mig Ended, (A, B, Z, Z) CZA - Add 18" adapter 10 pin MS 12 pin M2, All Channels (A, A', B, B, Z, Z) CZA - Add 18" adapter 10 pin MS 12 pin M2, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A, A', B B/, Z, Z) CUA - Add 18" adapter 10 pin MS 2 pin M12, All Channels (A', C) CA - C, C) CA - C) CA - C, C) CA - C) CA - C) CA - C



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