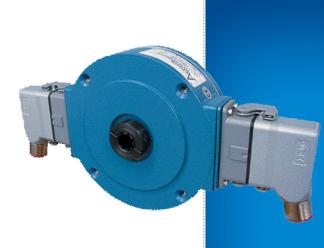
Avtron M4-(3-5, A-F) Small Bore Encoders



Magnetic Hollow Shaft Mount Encoder Replaced by HS45 Upgraded Model

Obsolete, Replaced by **HS45**

No Longer Available-Replaced by HS45 See documents tab for HS45 upgrade benefits

M4(SMALL)

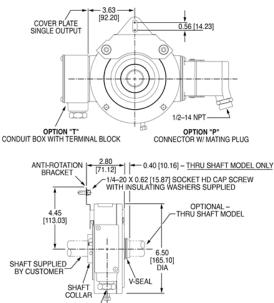
Avtron M4 hollow shaft encoder, 5/8" to 1 1/8" [16-25mm] has been replaced with the HS45 upgraded model, which offers larger bearings and potted construction for increased durability, as well as LED and remote diagnostics. HS45 replaces these models with no rewiring and no mechanical changes.

Looking for M4-1 or M4-2 solid shaft models? These were replaced by the upgraded AV485 encoder, offering severe duty construction with larger bearings and potted electronics as well.

Looking for M4 large-bore models > 1 1/8"/48mm shaft size? They are a current model, click here for the M4-Large-Bore encoder.

Check out our cross reference page for updated models.

OUTLINE DRAWING



MORE M4(SMALL) ADVANTAGES

- No longer available-replaced by HS45
- Replaces Lakeshore HS85 and HS56
- Optional stub shaft kits for GE motors, 180-6000 Frame
- Available C-Face tether kits (4.5" to 16")
- Available threaded rod torque arm
- Optional OSHA finger guard

i.

- Highly resistant to electrical and magnetic motor and brake noise
- Second isolated output may be different PPR

M4(SMALL) SPECIFICATIONS

Operating Power: 5-24 VDC; Current 120mA, no load Output Format: A,A-, B,B-; Optional Marker Z,Z-Frequency Range: 0 to 100 KHz PPR: 240-1200 Speed:

- 5000 RPM Max. Std., shafts 5/8" to 1 5/8"
- 3600 RPM Max. Std., shafts 2" to 2 3/8"

(for higher speeds, consult factory)

Temperature: -40°* to 85°C (*-20° standard) **Chemical**: Polyurethane enamel paint protects against salt spray, mild acids, and bases **Weight**: 7 lbs.

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

All dimensions are in inches [millimeters].

Specifications and features are subject to change without notice.

SELECTION GUIDE

1/2-14 NPT

Model	Bore Size	Mounting Style	Line Driver	Left & Right Output Range	Base PPR	Marker	Connector Options	Special Features
M4	 8- 1 1/2" 9- 1 5/8" 6- 2" J- 2 1/8" 7- 2 3/8" 6- 48mm D- 52mm E- 58mm H- 60mm 	 S- End-of-Shaft G- End-of-Shaft with Grounding T- Thru-Shaft 	1- 5-24V 4- 5-24V in, 5V out 8- 5-24V in, 5-24V out hi power	 X- none L- Low Range (Base PPR x 1/2) M- Medium Range (Base PPR x 1) H- High Range (Base PPR x 2) 	48-4 80 51- 512 60- 600	Z- Marker - none		000- none 003- Torque arm (B27239) 005- 40° C rated 038- Fan cove tether (see instruction manual for full list.)

	Connector										
ſ	10 Pin Conne	ector	5 Pin MS Connector	Conduit Box	3 ft. Flex. Cable						
[MS	MS mini		M737A replacement	N- with color coded	W-Sealed, Pigtail					
	A- without Plug* K-with Flex. Conduit B- with Flex. Adapter* Conduit Adapter* L- with Plug* C- with Plug* M- without Plug*		P- with Plug V- without Plug	E- without Plug ^s F- with Plug ^s M727A replacement H- without Plug ^s J- with Plug ^s	leads T- with Terminal Block	 X- Sealed, Industrial Connector without Plug Z- Sealed, Industrial Connector with 					

^s side exit
^b bottom exit



Nideo-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.