

# Avtron M7 Hollow Shaft

Magnetic Hollow Shaft Mount Encoder, 1" to 1 1/8"



## Ready for the Coldest Locations

- Heavy, Mill Duty
- Up to 1200 PPR  
-45°C to +80°C  
Operation
- Immune to water, oil, dust, dirt, etc.
- Withstands extreme shock and vibration
- Extra heavy-duty bearings
- Optional dual isolated outputs
- Excellent for oil drilling and gas pipeline applications

**M7-4 and M7-5** heavy mill duty encoders are designed for direct mounting on motor or load shafts, from 1" to 1 1/8".

Forget fragile glass disk encoders! The M7 features Avtron's rugged magnetic sensor and solid metal rotor technology. Our shatterproof, moisture proof systems ensure your application has maximum uptime.

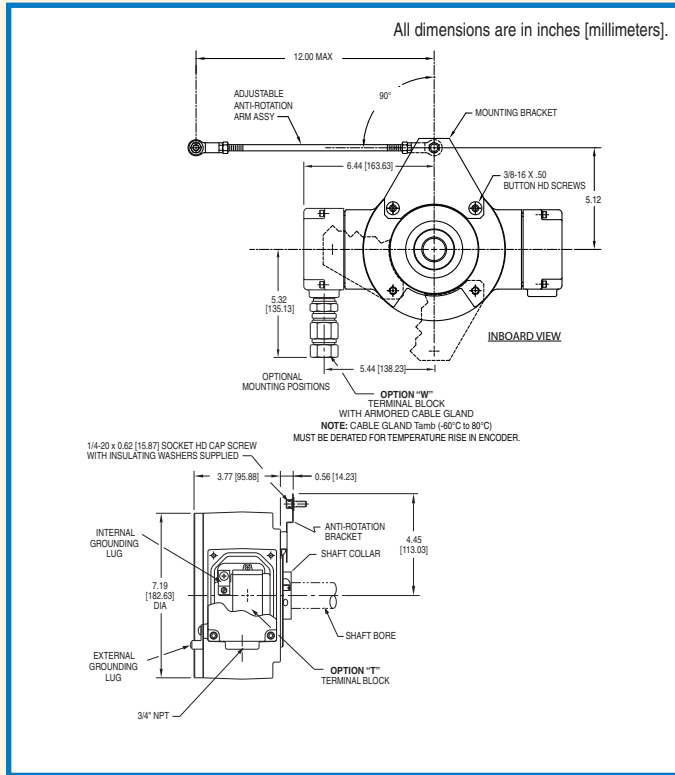
No more tiny stub shafts on big motors or load shafts! The hollow shaft (tethered) models offer direct mounting on big shafts, from 1" to 1 1/8", without flanges, reducers, couplings, or other hardware. No rework is needed; just mount the encoder directly on the shaft, and secure the tether arm. The heavy duty bearings

withstand runout and vibration that destroy lesser encoders.

If you have a rough application in a cold location, select an M7 encoder!

# M7 Magnetic, Hollow Shaft Encoder (1" to 1 1/8")

## OUTLINE DRAWING



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

[www.avtronencoders.com](http://www.avtronencoders.com)

## MORE M7 ADVANTAGES

- Threaded rod torque arm for easy tethered mounting
- Highly resistant to electrical and magnetic motor and brake noise
- Second isolated output may be different PPR
- Available armored wire gland
- IP66 Enclosure

## M7 SPECIFICATIONS

**Operating Power:** 5-24 VDC; Current 120mA per output, no load 24VDC

770mA heater current required for operation below -40°C

**Output Format:** A,  $\bar{A}$ , B,  $\bar{B}$ ; Optional Marker Z,  $\bar{Z}$

**Frequency Range:** 0 to 100 KHz

**PPR:** 240-1200

**Speed:** 5000 RPM Max. Std., 1" to 1 1/8" shaft

**Temperature:** 80°C to -45°C (internal heater operation required below -40°C)

**Chemical:** Polyurethane enamel paint protects against salt spray, mild acids, and bases

**Weight:** 16-18 lbs.

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## SELECTION GUIDE

Model	Bore Size	Mounting Style	Line Driver	Left & Right Output Range	Base PPR	Marker	Connector	Modifications
M7-	0- Non-Standard 4- 1" 5- 1 1/8"	S- End-of-Shaft	3- 12 to 24 VDC	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- 480 51- 512 60- 600	Z- Marker - - None	T- Conduit Box, Terminal Block, 3/4" NPT W- Conduit Box, Terminal Block and Wire Gland	000- None

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

