

## Specifications

### Electrical Specifications

Input Voltages	+5.0 VDC to +26.0 VDC
Resolution	60, 100, 120, 125, 128, 150, 200, 256, 300, 500, 512, 600, 1000, 1024, 1200 PPR (>1000 Z optional)
Frequency Response	0 - 120 kHz
Pulse Code	A, B, Z (Index), and complements (/A, /B, /Z)
Output Phases	A, B phase @ 90° C, Z phase - Once per rev. (gated)
Pulse Duty Cycle	50% ± 10% (within defined mechanical specs.)
Quadrature Accuracy	90° ± 22° C (within defined mechanical specs.)
Output Type	High speed line driver with compliments
Rise and Fall Time	Less than 1µs @ 10,000 pf typical
Current Consumption	40 mA
Output Current Capability	40 mA
Connections	10 pin heavy duty industrial connector w/ 1/2" NPT fitting; 22 AWG, 8 conductor, 18" shielded twisted pairs

### Mechanical Specifications

Maximum Operational RPM	3,600 RPM
Available Shaft Size	0.375" - 1.125" (10mm - 30 mm)
Unit Weight	5.00 lbs (2.27 kg)
Unit Dimensions	1.25" (32mm) x 3.50" (90mm) x 5.50" (140mm)
Box Weight / Box Dimensions	0.60 lbs (0.30kg) / 13.25" (337mm) x 8.25" (83mm)

### Environmental Specifications

Operational Temperature	-20° C to +80° C
Operational Humidity	98% Maximum
Chemical Resistance	Salt spray, most solvents, mild acids and bases
Vibration	Minimum 18 g's RMS, 5 - 2000 Hz
Shock	50 G's for 11 µ sec

Note: For applications requiring higher operational speed and frequency response consult factory.

## Ordering Information

### Part Numbering Table

When ordering the MagCoder encoder, it is necessary to specify encoder type, pulse count, shaft size, connection, electrical and mechanical options needed. Use the table below to construct the model number.

<b>A Encoder Type</b>	Hollow shaft	MH
<b>B Pulse Count</b>	60, 100, 120, 125, 128, 150, 200, 250, 256, 300, 500, 512, 600, 1000, 1024, 1200 (Index marker Z optional > 1000)	
<b>C Shaft Size</b>	0.500" Thru-shaft 0.625" Thru-shaft 0.750" Thru-shaft 1.000" Thru-shaft 1.125" Thru-shaft 14.0 mm Thru-shaft 16.0 mm Thru-shaft 25.0 mm Thru-shaft	1H 1H 1J 1K 1M 1G 1I 1K
<b>D Connections</b>	18" Pigtail Cable Latching Industrial connector w/ 1/2" NPT Latching industrial connector w/ HUB MS connector (3102)	0 2 4 6
<b>E Temperature</b>	-20 to 80 °C	S
<b>F Electrical</b>	5-26 V input and output 5-26 V input and 5 V output	0 1
<b>G Mechanical</b>	Customer supplied Standard tether Standard tether 56C Standard tether 180C	0 1 2 3

### Example:

MH	1024	1H	0	S	0	1
A	B	C	D	E	F	G

## Dimensional Drawing

