

SERIES M14

Dynapar™ brand

Miniature Encoder

Key Features

- Ideal Economical Choice for Stepper and Servo Motor Feedback
- Short .678" Mounting Depth and 1.5" Diameter
- Up to 1024PPR Resolution with Index



SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

Code: Incremental, Optical

Resolution: Incremental pulses per revolution; 200 to 1024

Phasing: 90° ±18° electrical

Symmetry: 180° ±18° electrical

Index Pulse Width: 90° ±36° electrical

ELECTRICAL

Supply Voltage: 5 VDC ±10%

Supply Current: 10 mA, typ.

Output Signals: 2.5 V min. high (V_{OH}); 0.5 V max. low (V_{OL}). 6 mA sink/source (25°C), 4 mA (100°C)

Frequency Response: 200 kHz

Termination: 5 pin connector (accessory connector w/12" wires, part no. CA0060012)

Recommended Mating Connector:
Amp Part Number 103969-4

MECHANICAL

Weight: 0.22 oz (6.2 g)

Moment of Inertia: 0.16 x 10⁻⁵ oz-in-sec² (0.13 gm-cm²)

Hub Bore: 3.0, to 8.0 mm; 0.125, to 0.375 inch

Hub Dia. Tolerance: +0.0004"/-0.0000" (+0.010 mm/-0.000 mm)

Mating Shaft Length: 0.525" (13.3 mm) max.; 0.436" (11.07 mm) min.

Mating Shaft Runout: 0.001 TIR

Mating Shaft Endplay: >512 ppr: ±0.003" (±0.076mm); 500, 512 ppr: +0.005/-0.003" (+0.127/-0.076mm); <500 ppr: +0.007/-0.003" (+0.178/-0.076mm)

ENVIRONMENTAL

Operating Temperature: -20° to 100°C

Storage Temperature: -50° to 125°C

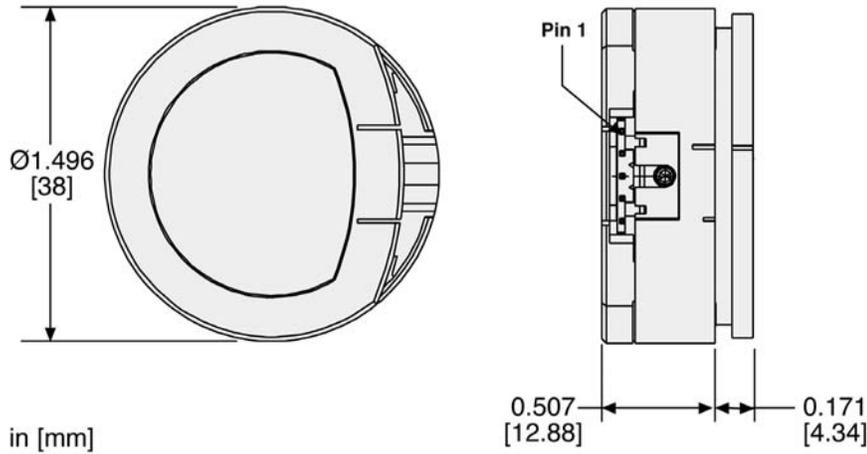
Relative Humidity: 90% non-condensing

OUTPUT WAVEFORM AND CONNECTIONS

5	GND		BLACK
4	CH Z		BLUE
3	CH A		WHITE
2	Vcc		RED
1	CH B		BROWN

Direction: CCW viewing encoder cover

Dimensions/Installation



Ordering Information

To order, complete the model number with code numbers from the table below:

Code 1: Model	Code 2: PPR	Code 3: Mounting Description	Code 4: Hub Bore Description
M14	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> /0	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Ordering Information			
M14 1.5" Diameter Incremental Modular Encoder	0500/0	0 No mounting base	3.0 3.0 mm
	0512/0	A 2x #2-56 on 1.28" BC	4.0 4.0 mm
	Special Order Consult Factory for Lead Time & Price	B 3x #0-80 on 0.823" BC	5.0 5.0 mm
		C 2x #2-56 on 0.75" BC	6.0 6.0 mm
	0200/0		8.0 8.0 mm
	0400/0		125 0.1248 in
	1000/0		187 0.1873 in
	1024/0		249 0.2498 in
			250 0.2501 in
			312 0.3123 in
		374 0.3748 in	
		375 0.3750 in	

IMPORTANT: To properly install Series M14, a specialized mounting kit must be purchased. Only one kit is required to install any number of encoders with the same hub bore size.

Kit Part Number: MK M14 Code 4 (from Models Table, above) designating Hub Bore requirement.

Example: Kit for installing encoders with 0.1248" hub Bore= **MK M14 125**



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