

AMCI DOUBLE SHAFT STEPPER MOTOR: ENCODER SPECIFICATIONS

The Renco RM Series Modular Encoder is an option on all **double-shaft** AMCI stepper motors (includes SM23, SM34, and SM42).

The RM Series is a highly reliable, low cost bearingless (modular) encoder using SMT technology. Sensors are set up differentially under a single LED light source.

Applicable specifications can be found in the table below:

ELECTRICAL SPECIFICATIONS:

Output: square-wave, two channel quadrature with index (gated with A 180° + or - 45°)

Supply Voltage: 5 Vdc

Nominal Power Requirements: 135 mA @ 5 Vdc

Output Sinks & Sources: 20mA

Output Format : TI AM26LS31CD or LM 2901

Output Frequency: Up to 200 KHz

Flutter: 1% max

Resolution: 1000

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature : -10°C to +100°C

Storage Temperature: -30°C to +110°C

Shock: 50 G's for 11ms duration

Vibration: 5-2000Hz @ 10 G's

IP Rating : IP40

Humidity: 90% relative (non-condensing)

WIRING CONNECTIONS:

Round Cable:

Pin	CA18 Function	Wire Color
1	+VCC	Red
2	GND	Blk
3	CH A	Wht
4	CH A NOT	Yel
5	CH B	Grn
6	CH B NOT	Blu
7	INDEX	Orn
8	INDEX NOT	Brn
	SHIELD	Drain