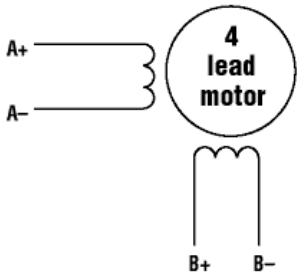
Digital Linear Actuator (External Nut)

Wiring Diagram



Descriptions

Conversion of rotary to linear motion inside a linear actuators accomplished through a threaded nut and lead screw. The external shaft is threaded. In order to generate linear motion the lead screw must rotating together with rotor, and the shaft threads engages the nut resulting in linear motion. Changing the direction of rotation combination determines the linear travel per step of the nut. The travel length and speed can be digital controlled by the input of data pulses. EM DLA M17HDAN, is designed as travel of o.004mm per step and can be accurately controlled to drive 40mm movement by a 10K data pulses input. Application: Various zoom controls, X-Y stages, as well as other linear motion control application.

General Specification

Model Number	Number of leads	Step Distance		Current Phase	Resistance per Phase	Inductance per Phase	Rotor Inertia		Motor Mass	
		mm	inch	A	ohm	mH	$g.cm^2$	$oz\text{-}in^2$	Kg	lb.
M17HD41N	4	0.04	0.0016	0.4	30	45	38	0.21	0.25	0.44

Mechanical Dimensions