



ENGLISH

Datasheet

RS Pro Miniature Linear Actuator

Stock No: 454-0990



A non-captive linear actuator that provides a long stroke length and up to 128 oz of linear force in a 26 mm frame size. The 7.5 degree step angle and option of 0.0005" lead screw pitch options allows for greater positional resolution.

Motor Highlights

- High continuous linear force output for size
- Digitally controlled - easy to use with a micro processor
- Cost effective - compact design, lower integration cost
- Maintenance free - no brushes to replace
- Unipolar and bipolar winding options
- Captive and non-captive designs
- Long life - ball bearing design

Applications

- [Motors for Medical Pipettes](#)
- [Damper Actuation](#)
- Flap actuation
- Printers and copiers
- Switching systems

Specifications

Stepper Type		Unipolar
Step Angle		±1 Step
Leadwire		AWG28, UL1429
Diameter	mm	26.0
Operating Voltage	V	12.0
Resistance per Phase, ± 10%	Ohms	84.0
Inductance per Phase, typ	MH	26.5
Rated Current per Phase, 1 Phase ON	A	0.20
Ambient Storage Temperature Range	°C	-20 to +70
Min. Holding Force (Unenergized) @ .0005" (0.0127 mm) / Step	N	34.20
Min. Holding Force @ 0.001" (0.0254 mm) / Step (Un-energized)	N	13.9
Min. Holding Force @ 0.002" (0.0508 mm) / Step (Un-energized)	N	5.5
Min. Holding Force @ rated current @ .0005" (0.0127 mm) / Step	N	34.20
Min. Holding Force @ rated current @ .001" (0.0254 mm) / Step	N	28.10
Min. Holding Force @ rated current @ .002" (0.058 mm) / Step	N	17.80
Stroke Length, Typ	mm	48.0
Steps per Revolution		48
Ambient Temperature Range, Operating	°C	-20 to +70
Maximum Coil Temperature	°C	130
Bearing Type		Ball Bearing
Insulation Resistance at 500 Vdc	Mohms	20
Dielectric Withstanding Voltage	V ac	650 for 2 Seconds
Weight	g	34.0