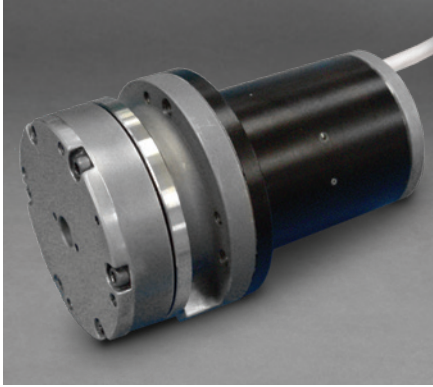
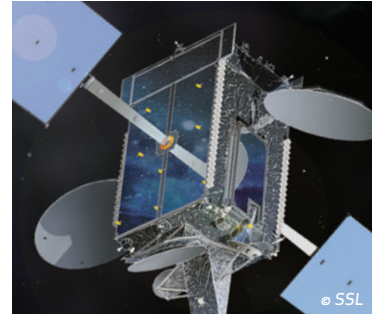


M8 ROTARY INCREMENTAL ACTUATOR



The Moog M8 rotary incremental actuator is a compact, closely integrated design made up of two key elements, a motor and a harmonic drive speed reducer. The motor is a small angle permanent magnet stepper with a relatively high holding torque. The harmonic drive speed reducer offers a large reduction ratio, high load capability, low weight, zero backlash and high torsional stiffness. Coaxial nesting of the motor and harmonic drive elements allows use of large, high capacity output bearings and gives the unit a low profile geometry.

Coaxial nesting of the motor and harmonic drive elements allows use of large, high capacity output bearings and gives the unit a low profile geometry.

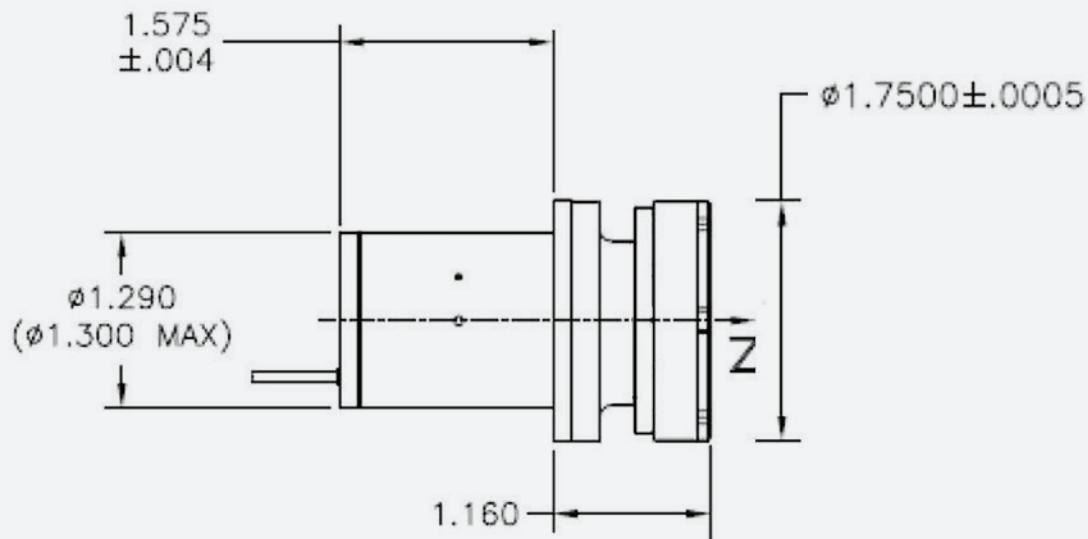


M8 ROTARY INCREMENTAL ACTUATOR

SPECIFICATIONS

Parameter	Units	Basis	Data
Output Step Angle	Degrees	Standard	0.050, 0.075 or 0.150
Max. Output Step Rate	Steps/sec	Maximum	600
Backlash	Degrees	Maximum	Zero
Operating Temperature Range	°C	Maximum	-45 to +65
Torsional Stiffness	lb-in/Rad (Nm/Rad)	Minimum	3800 (430)
Bending Stiffness	lb-in/Rad (Nm/Rad)	Minimum	45000 (5084)
Axial Stiffness	lb/in (N/m)	Minimum	250000 (43.9 x 10 ⁶)
Radial Stiffness	lb/in (N/m)	Minimum	130000 (22.8 x 10 ⁶)
Output Load Capability Axial	lbf (N)	Nominal	158 (700)
Transverse	lbf (N)	Nominal	158 (700)
Output Torque	lb-in (Nm)	Minimum	25 (2.82)
Unpowered Holding Torque	lb-in (Nm)	Minimum	14 (1.58)
Powered Holding Torque	lb-in (Nm)	Minimum	25 (2.82)
Power	Watts	Maximum	20
Total Assembly Weight	lb (Grams)	Maximum	0.77 (350)
Winding Type	Redundant if Required		2 or 3 phase

DIMENSIONS



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