

Specifications

| Encoder Resolution | | Part Number |
|---|--|--------------|
| Standard Actuators: | 0.05101 μ m | 850G, 850GV6 |
| High Speed Actuators: | 0.60514 μ m | 850G-HS |
| Low Speed Actuators: | 0.007985 μ m | 850G-LS |
| Nominal Gearbox Ratio and Maximum Speed | | |
| Standard Actuators: | 262:1 ratio (1624 motor); 500 μ m/sec. | |
| High Speed Actuators: | 22:1 ratio (1624 motor); 6000 μ m/sec. | |
| Low Speed Actuators: | 1670:1 ratio (1516 motor); 78 μ m/sec. | |
| Backlash | < 20 micron typical with external load of 2 lbs.(1 kg) minimum | |
| Accuracy | < 0.1% of travel, cumulative | |
| Bi-directional | Repeatability: Better than 1 micron when backlash is compensated by controller (standard actuators) *1 | |
| Encoder | Magnetic, 2KHz; open collector, quadrature output, +5V to +12V supply | |
| Absolute cyclic pitch | Error < 1 micron | |
| Time to reach full speed | < 50 msec at max. speed and acceleration settings | |
| Max. Side Load | 5 lb. (2.3 kg) at full shaft extension | |
| Max. Axial Load | 18 lb. (8 kg) standard and low speed actuators | |
| Cable | 12 foot (3.6 m) cable integral to actuator terminated with 25-pin male Dsub connector | |