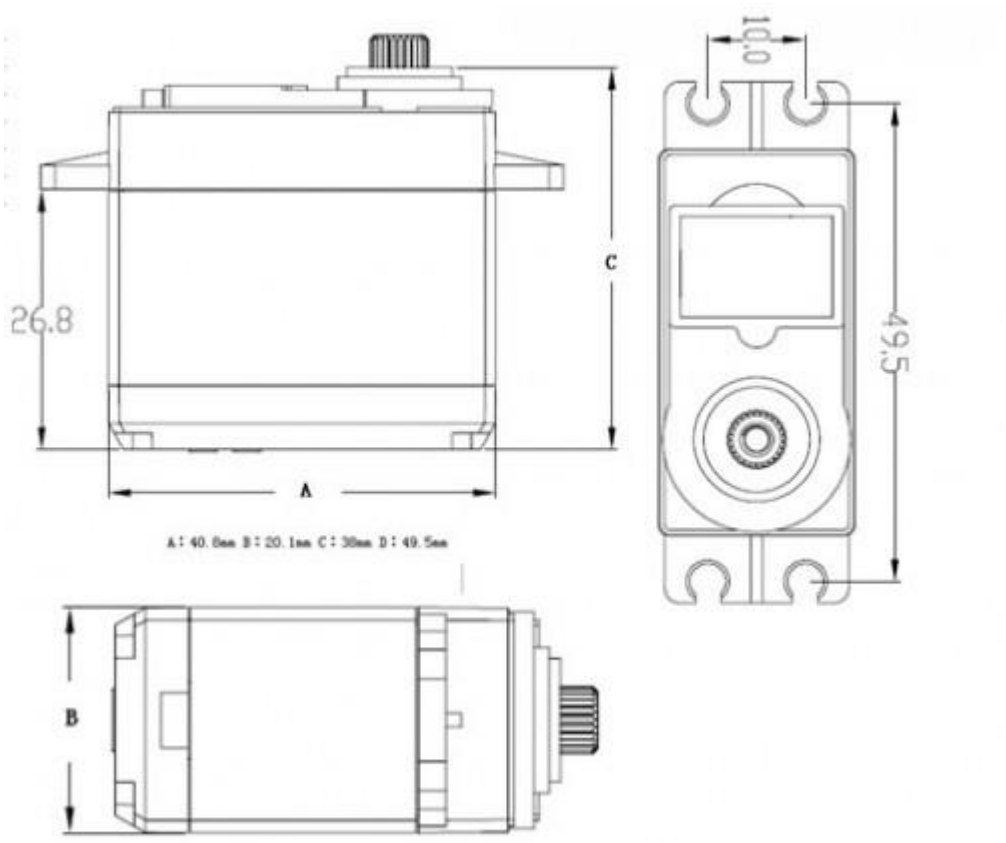
Digital Servo Motor (Standard and Continuous Rotation) DM-0100



DM-0100 is digital servo motor with two working modes: 360 degree continuous rotation and standard servo mode.

Programming the rotation in the Arduino IDE is as easy as the programming of the servo movement. With the included servo library from the Arduino website you can just make the servo rotating clockwise, counterclockwise or stop by writing the related servo angels.

DM-0100 servo motor have three wires: black, red and white.

- black = ground (GND, battery negative terminal)
- red = servo power (Vcc, battery positive terminal)
- white = servo control signal line

FEATURES

Two working modes (360 degree continuous rotation and servo)
Linear response to PWM (500 – 2500 us)
Speed @ 5V (no load): 0.16 sec/60°-> about 62 RPM
Stall Torque @ 5V: 9 kg•cm
2 Ball Bearings; metal Gear

Model	DM-0100
Rotation	Standard servo and 360 degree Continuous rotation
Communication	Pulse-width modulation (PWM)
Operating Voltage range	4.8 - 8.4 V
Speed @ 5V (no load)	0.16 sec/60° -> about 62 RPM
Speed @ 6V (no load)	0.14 sec/60° -> about 71 RPM
Stall torque @ 5V (locked)	9 kg•cm
Stall torque @ 6V (locked)	11 kg•cm
Idle current @ 5V (at stopped)	5 mA
Idle current @ 6V (at stopped)	6 mA
Running current @ 5V (at no load)	100 mA
Running current @ 6V (at no load)	130 mA
Stall current @ 5V	800 mA
Stall current @ 6V	1000 mA
PWM width range	500 - 2500 us
Neutral position	1500 us
Clockwise rotation	When PWM width between Neutral position & 500 usec (0 to 100 %)
Counter Clockwise rotation	When PWM width between Neutral position & 2500 usec (0 to 100 %)
Dead band width	2 us
Limit angle (servo mode)	200° +/-5°
Bearing	2 Ball Bearings
Gear Material	Metal
Output Gear	25 T
Connector wire length	30 cm
Dimensions	40.2 x 20 x 38 mm (see drawings)
Weight	58 g