

HV4613 Technical Specification

1. Specification

Operating Voltage: DC7.4V.

Operating Voltage Range: DC4.8V-8.4V.

Working Frequency: 1520us/333Hz.

Pulse Lengths: 900us-2100us.

Default Travel Angle: $\pm 50^\circ = 100^\circ$ total travel/1000us-2000us.

Max. Travel Angle: $\pm 60^\circ = 120^\circ$ total travel/900us-2100us.

Signal Voltage: HIGH: min.3.3V, max.5.0V / Low: min.0.0V, max.1.5V.

Pulse Lengths for Position: 900us/1500us/2100us (-60° / 0° / $+60^\circ$).

Operating Temperature Range: -10°C $+65^\circ\text{C}$.

Dimensions: 40.5*20*40mm ± 0.2 mm.

Weight: 70g $\pm 10\%$.

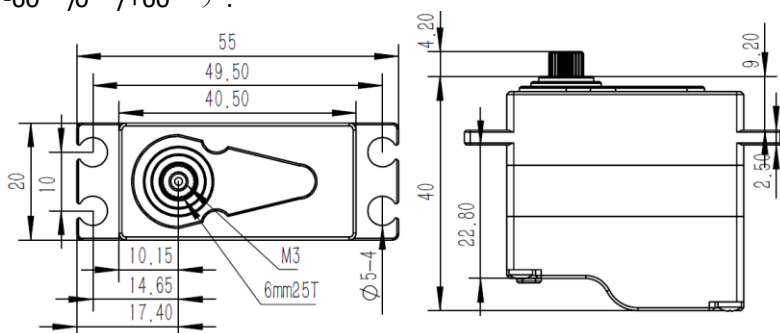
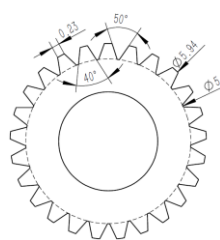
Case Material: Aluminum Alloy.

Motor Type: Coreless DC Motor.

Gear Set Material: Hardened Steel.

Position Sensor: Potentiometer.

Ball Bearing: 2BB.



Voltage	Holding Torque	Output Torque	No-load Speed	Stalling Current
4.8V	32.0Kgf.cm	20.0Kgf.cm	0.20sec/60°	4.00A
6.0V	40.0Kgf.cm	25.0Kgf.cm	0.16sec/60°	4.85A
7.4V	46.0Kgf.cm	30.0Kgf.cm	0.13sec/60°	5.62A
8.4V	50.0Kgf.cm	33.0Kgf.cm	0.12sec/60°	6.45A

2. Electrical Connection

 321	Pin Assignment			
	1	Orange	Signal	PWM Command
	2	Red	DC+	Supply Voltage
	3	Brown	DC-	Supply Ground

3. Performance

