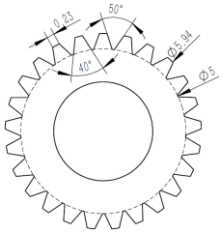
HV4613 Technical Specification

1. Specification





Operating Voltage: DC7.4V.

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

Working Frequency: 1520us/333Hz.

Pulse Lengths: 900us-2100us.

Default Travel Angle: ±50° =100° total travel/1000us-2000us.

Max. Travel Angle: ±60° =120° 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° ）.

Operating Temperature Range: -10℃……+65℃.

Dimensions: 40.5*20*40mm±0.2mm.

Weight: 70g±10%.

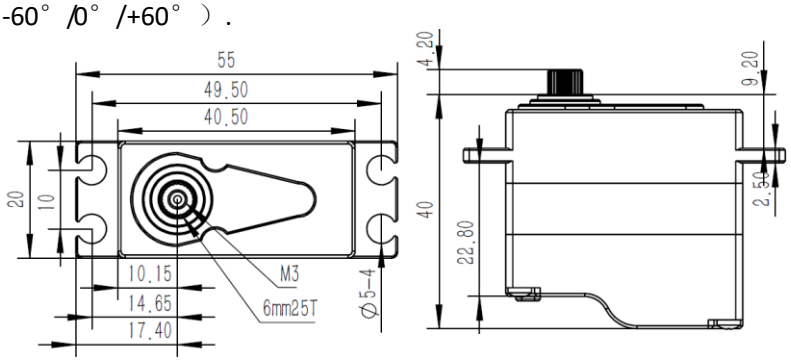
Case Material: Aluminum Alloy.

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



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

3. Performance

