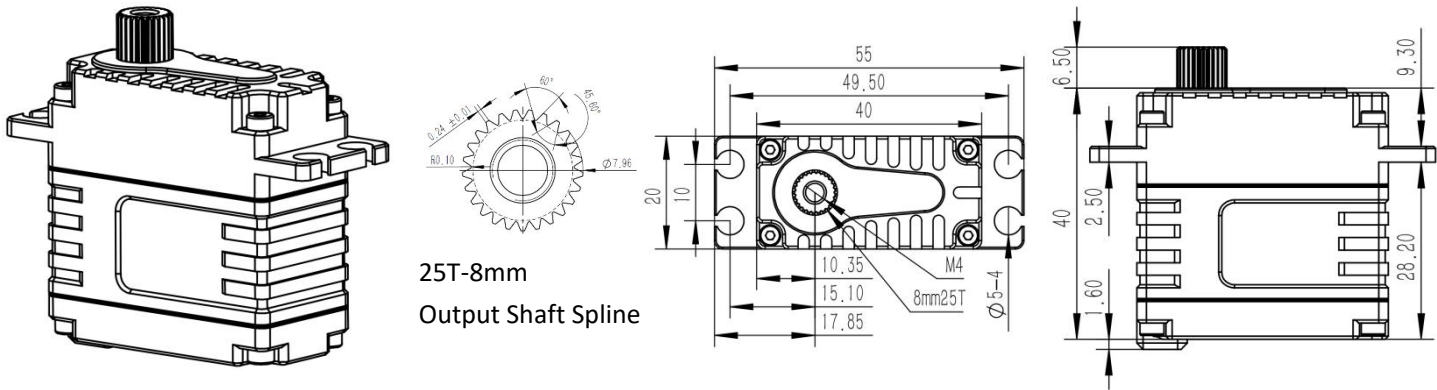


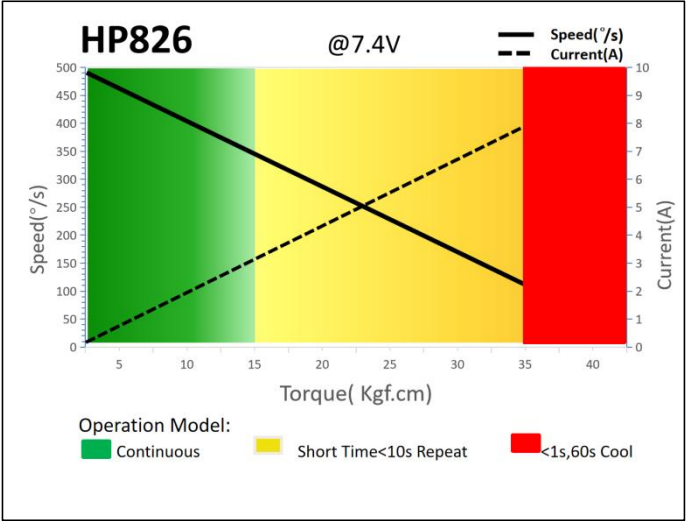
Technical Specification



1. Operating Data

Rated Voltage	DC7.4V
Voltage Range	DC6V-9V
No-load current	55mA
Stalling Torque	35Kgf.cm
No load speed	490°/sec
Rated Speed	350°/sec
Stalling Current	8.5A
Rated Torque	15Kgf.cm
Rated Current	3.2A
Working Frequency	1520us/333Hz
Pulse Width	500us-2500us
Temperature Range	-30°C.....+65°C
Default Travel Angle	±100°=200° Total angle
Dead Band	2us
Gear Backlash	≤0.5°
Command Signal	PWM
Dimensions	40mm*20mm*40mm(±0.2mm)
Weight	80g±10%
Case Material	Aluminum Alloy
Motor Type	Brushless DC Motor
Gear Set Material	Hardened Steel
Position Sensor:	Contactless
Ball Bearing:	2BB

2. Performance



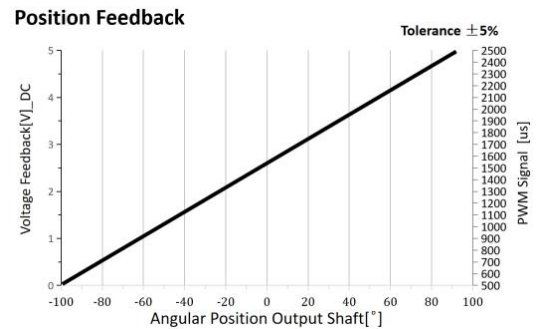
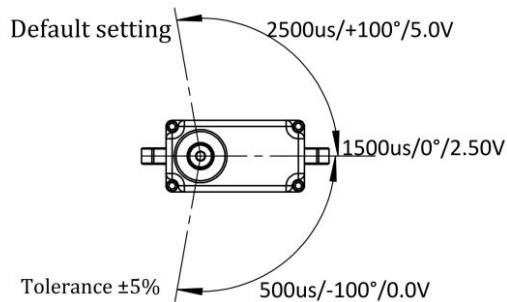
3.Command Signal

3.1 PWM Command Interface

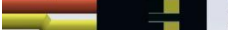
Signal Voltage	HIGH: min.3.3V, max.5.0V Low: min.0.0V, max.1.5V
Pulse Width	500us-2500us
Pulse Width for Position	1000us/1500us/2000us -50°/ 0°/+50°

3.2 PWM Position Feedback Signal

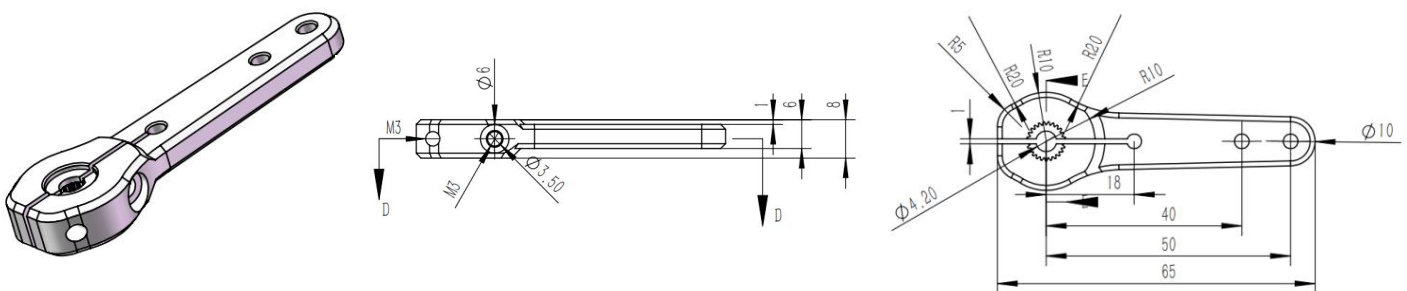
The Position Feedback signal (Pos FB) is an analog output signal with a voltage value which is directly related to the output shaft's angular position. Reference is **FB -**.



4. Electrical Connection

PWM Connection	Pin Assignment			
	1	Yellow	SIG	Command Signal
	2	Red	DC+	Supply Voltage
	3	Brown	DC-	Supply Ground
	4	White	FB +	Feedback Signal (Option)
	5	Black	FB -	Feedback Signal Ground (Option)

5.Accessories: Aluminum Servo Horn , Item No.: 0825.50



6. Item Number System

