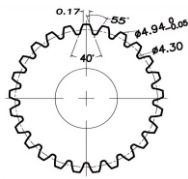
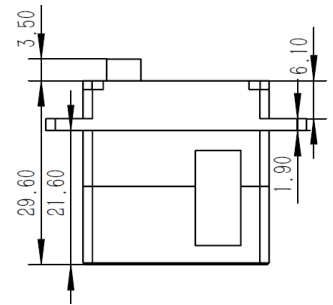
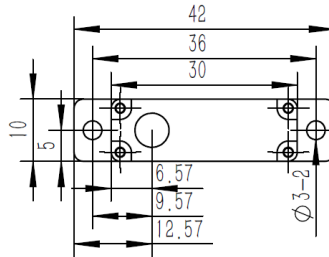


### DS145MG Technical Specification



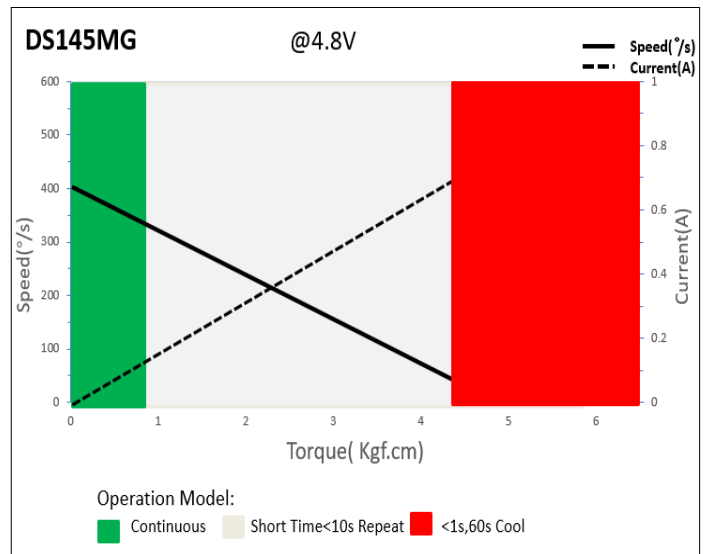
25T 5mm Output Shaft Spline



#### 1. Operating Data

Rated Voltage	DC4.8V
Voltage Range	DC4.8V-6.0V
Torque	4.3Kgf.cm@4.8V
	5.2Kgf.cm@6.0V
Speed	0.15sec/60°@4.8V
	0.12sec/60°@6.0V
Working Frequency	1520us/333Hz
Default Travel Angle	±50° = 100° Total
Temperature Range	-10℃ .....+65℃
Soft Start	Programmable
Programmable	Yes
Case Material	Aluminum Alloy
Motor Type	Coreless DC Motor
Gear Set Material	Hardened Steel
Position Sensor	Potentiometer
Case Dimensions	30*10*29.6mm±0.2mm
Weight	23g±10%

#### 2. Performance

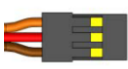


#### 3. Command signal

##### PWM Command Interface

Signal Voltage	HIGH: min.3.3V, max.5.0V Low: min.0.0V, max.1.5V
Pulse Lengths	800us-2200us
Pulse Lengths for Position -50°/ 0°/+50°	1000us/1500us/2000us

#### 4. Electrical Connection

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