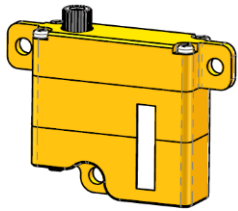
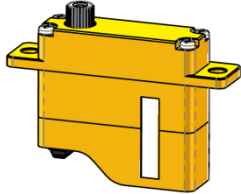


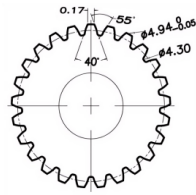
### X10 Mini Pro Technical Specifications



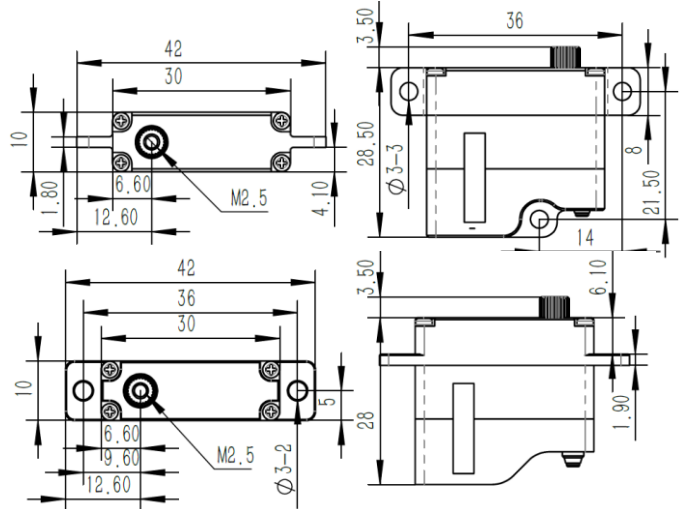
**X10Mini Pro-A**



**X10Mini Pro-B**



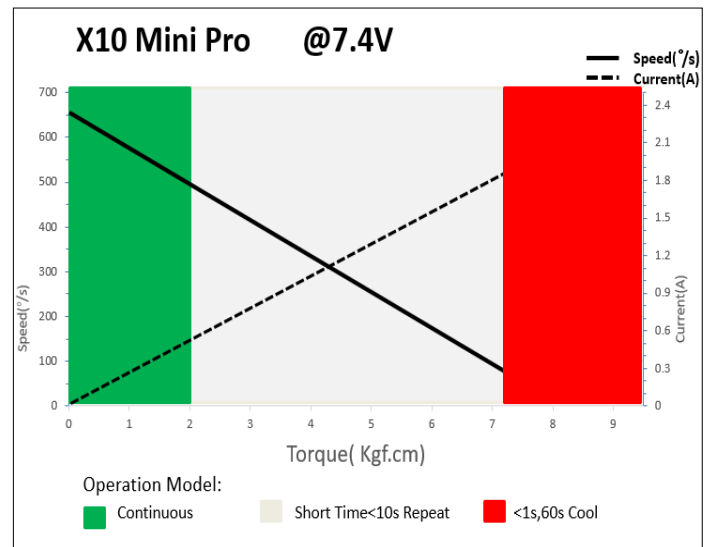
25T-5mm  
Output Shaft Spline



#### 1. Operating Data

Rated Voltage	DC7.4V
Voltage Range	DC4.8V-8.4V
Torque	4.5Kgf.cm@4.8V
	6.0Kgf.cm@6.0V
	7.2Kgf.cm@7.4V
	8.0Kgf.cm@8.4V
Speed	0.13sec/60°@4.8V
	0.11sec/60°@6.0V
	0.09sec/60°@7.4V
	0.08sec/60°@8.4V
Working Frequency	1520us/333Hz
Default Travel	±60° = 120° 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
Ball Bearing	2BB
Case Dimensions	A: 30*10*28.5mm±0.2mm
	B: 30*10*28.0mm±0.2mm
Weight	20g±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	900us-2100us
Pulse Lengths for Position	1000us/1500us/2000us -50°/ 0°/+50°

#### 4. Electrical Connection

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