

**产品规格书****Specification of Product**

**产品名称: 360 Degree Continuous Rotation Analog Feedback with Magnetic Encoder 15kg Digital Servo**

**产品型号 Model No. FB5311M-360**

**1. 使用环境条件 Apply Environmental Condition**

No.	Item	Specification
1-1	存储温度 Storage Temperature Range	-30°C~80°C
1-2	运行温度 Operating Temperature Range	-15°C~70°C

**2. 测试环境 Standard Test Environment**

No.	Item	Specification
2-1	温度 Temperature range	25°C ±5°C
2-2	湿度 Humidity range	65%±10%

**3. 机械特性 Mechanical Specification**

No.	Item	Specification
3-1	尺寸 Size	A: 40mm B: 20.1mm C: 38.8mm D: 54mm
3-2	重量 Weight	64g
3-3	齿轮类型 Gear type	Copper Gear
3-6	机构极限角度 Limit angle	No limit
3-7	轴承 Bearing	2 Ball bearings
3-8	出力轴 Horn gear spline	25T(5.9mm)
3-9	摆臂 Horn type	Plastic, POM
3-10	外壳 Case	Nylon & Fiberglass
3-11	舵机线 Connector wire	300mm ±5 mm(Black ,Red, white and Orange)
3-12	马达 Motor	Metal brush motor
3-13	防水性能 Splash water resistance	NO

**4. 电气特性 Electrical Specification (Function of the Performance)**

No.	工作电压 Operating Voltage Range	4.8V	6V
4-1*	静态电流 Idle current(at stopped)	5mA	5mA
4-2*	空载速度 No load speed	40RPM	50RPM
4-3*	空载电流 Runnig current(at no load)	130 mA	150 mA
4-4	堵转扭矩 Peak stall torque	13kg. cm	15.5kg. cm
		180.85oz. in	215.6oz. in
4-5	堵转电流 Stall current	1500 mA	1800mA

Note: "\*"definition is average value when the servo runing with no load

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**5. 控制特性 Control Specification:**

No.	Item	Specification
5-1	控制信号 Command signal	Pulse width modification
5-2	放大器类型 Amplifier type	Digital comparator
5-3	脉冲宽度范围 Pulse width range	500~2500 $\mu$ sec
5-4	中立位置 Neutral position	1500 $\mu$ sec
5-5	反馈电压 Feedback Voltage	0V-3.3V For 0° ~360° (when 1500~2000 $\mu$ sec)
5-6	旋转角度 Running degree	360° Continuous rotation
5-7	死区宽度 Dead band width	1500 $\pm$ 20 $\mu$ sec (Stop Pulse Width)
5-8	旋转方向 Rotating direction	clockwise (when 1500~2000 $\mu$ sec) Stop (1500 $\pm$ 20 $\mu$ sec) Counterclockwise (when 1500~1000 $\mu$ sec)

**6. 外形图 The Drawings**


