

# Kitronik Clippable 360 Degree Servo

Product Name: 4.8V 1.3kg.cm Analog 360 Degree Continuous rotation Servo

Model No. FS90R

## 1. Apply Environmental Condition

No.	Item	Specification
1-1	Storage Temperature Range	-30°C~80°C
1-2	Operating Temperature Range	-15°C~70°C

## 2. Standard Test Environment

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

## 3. Mechanical Specification

No.	Item	Specification
3-1	Size	A: 22.5mm B: 12.1mm C: 27.7mm
3-2	Weight	9g ±0.2
3-3	Gear type	Plastic Gear(Nylon & POM )
3-6	Limit angle	NO limit
3-7	Bearing	NO Ball bearings
3-8	Horn gear spline	21T(4.86mm)
3-9	Horn type	Plastic, POM
3-10	Case	Nylon & Fiberglass
3-11	Connector wire	250mm ±5 mm
3-12	Motor	Metal brush motor
3-13	Splash water resistance	NO

## 4. Electrical Specification (Function of the Performance)

No.	Operating Voltage Range	4.8V	6V
4-1*	Idle current(at stopped)	5mA	6mA
4-2*	No load speed	80RPM	100RPM
4-3*	Runnig current(at no load)	110 mA	130 mA
4-4	Peak stall torque	1.3kg.cm	1.5kg.cm
		18.09oz.in	20.86oz.in
4-5	Stall current	700 mA	800mA

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

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### 5. Control Specification:

No.	Item	Specification
5-1	Command signal	Pulse width modification
5-2	Amplifier type	Analog comparator
5-3	Pulse width range	700~2300μsec
5-4	Running degree	1500 μsec
5-5	Stop position	360 Degree Continuous rotation
5-6	Dead band width	90 μsec
5-7	Rotating direction	CW(when 1500~700 μsec) CCW(when 1500~2300 μsec)

### 6. The Drawings

