seeed studio

INDUSTRIAL PRODUCT DATASHEET

Analog 360° Continuous Rotation 9g Servo (FS90R)

Analog 360° Continuous Rotation 9g Servo (FS90R) with speed/direction control, Arduino compatibility, and adjustable stopping point.

SKU	UPDATED	PRICE
114992423	2025-07-30 07:12:10	$2.90(Excl. VAT)



Overview

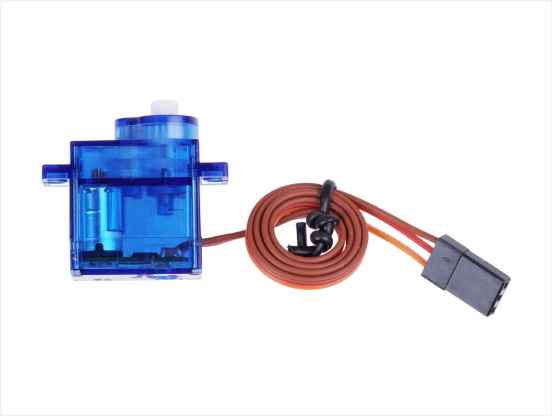


The Analog 360° Continuous Rotation 9g Servo (FS90R) offers 360° continuous rotation with speed and direction control. It includes additional horns, easy Arduino integration using the servo.h library, and a built-in potentiometer for stopping point adjustment.

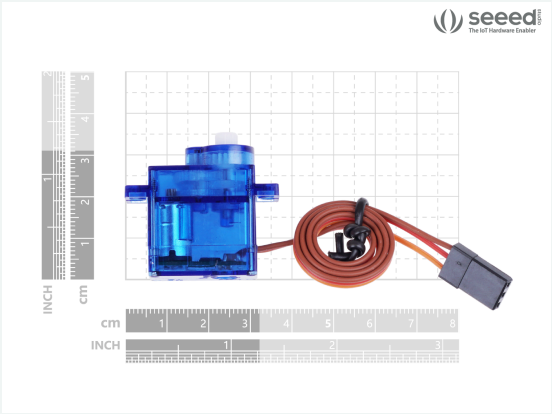
Key Features

- 360° Continuous Rotation with speed and direction control
- Additional horns to suit your needs
- Easy to use with an Arduino using servo.h library
- Built-in potentiometer to adjust the servo stopping point

Product Gallery







Specification

Specification	Details
Mechanical Specifications	
Size	A: 22.5mm B: 12.1mm C: 27.7mm
Weight	9g ±0.2
Gear Type	Plastic Gear(Nylon & POM)
Limit angle	No limit
Bearing	No Ball bearings
Horn gear spline	21T(4.86mm)
Horn type	Plastic,POM
Case	Nylon & Fiberglass
Motor	Metal brush motor
Splash water resistance	No
Electrical Specifications	
Idle current(at stopped)	5mA@4.8V, 6mA@6V
No load speed	80RPM@4.8V, 100RPM@6V

Specification	Details
Running current(at no load)	110mA@4.8V, 120mA@6V
Peak stall torque	1.3kg.cm/18.09oz.in@4.8V, 1.5kg.cm/20.86oz.in@6V
Stall current	700mA@4.8V, 800mA@6V
Control Specifications	
Command signal	Pulse width modification
Amplifier type	Analog comparator
Pulse width range	700～2300μsec
Stop position	1500 μsec
Running degree	360 Degree Continuous rotation
Dead zone width	90 μsec
Rotating direction	CW(when 1500～700 μsec) CCW(when 1500～2300 μsec)
Environmental Conditions	
Storage Temperature Range	-30℃～80℃
Operating Temperature Range	-15℃～70℃
Test Temperature range	25℃ ±5℃
Test Humidity range	65%±10%

Part List

- 1 x Analog 360° Continuous Rotation Servo (FS90R)
- 3 x Screws
- 5 x Servo horns

Compliance & Logistics

HSCODE	8501109990
USHSCODE	8501106080
UPC	
EUHSCODE	8501109390
COO	CHINA

Resource Links

- https://www.seeedstudio.com/Analog-Continuous-Steering-Servo-FS90R-p-4723.html

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