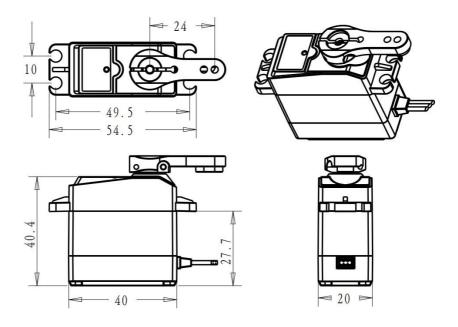
LAMPIRAN

Datasheet Servo DS 3235



Dimensions

Specification

No.	Item	Specification
1-1	Storage Temperature	-30°C∼80°C
	Range	
1-2	Operating Temperature	-15°C∼70°C
	Range	
1-3	Operating Voltage	5-7.4V
	Range	

No.	Item	Specification
2-1	Size	40*20*38.5mm
2-2	Weight	60g
2-3	Gear ratio	373
2-4	Bearing	Double bearing
2-5	Connector wire	300±5mm
2-6	Motor	Coreless motor
2-7	Waterproof	IP66
	performance	

Mechanical specification

Electrical specification

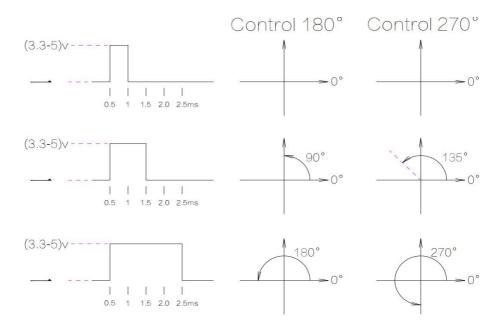
No.	Operating	5V	6V	7.4V
	Voltage			
3-1	Idle current	5mA	5mA	5mA
	(at stopped)			
3-2	Operating	0.13 sec/60°	0.12 sec/60°	0.11sec/60°
	speed (at no			
	load)			
3-3	Stall torque	29 kg-cm	32 kg-cm	35 kg-cm
	(at locked)			
3-4	Stall current	1.9A	2.1 A	2.3A
	(at locked)			

Control specification

No.	Item	Specification
4-1	Control System	PWM(Pulse width
		modification)
4-2	Pulse width range	500~2500µsec

4-3	Neutral position	1500µsec
4-4	Running degree	$180^{\circ} \text{ or } 270^{\circ} \text{ (when }$
		500~2500 μsec)
4-5	Dead band width	2 µsec
4-6	Operating Frequency	50-330Hz
4-7	Rotating direction	Counterclockwise (when 500~2500
		µsec)

PWM - About PWM Control



Datasheet Hc-SR04

The sensor chosen for the Firefighting Drone Project was the HC-SR04. This section contains the specifications and why they are important to the sensor module. The sensor modules requirements are as follows.

- Cost
- Weight
- Community of hobbyists and support
- Accuracy of object detection
- Probability of working in a smoky environment
- Ease of use

The HC-SR04 Specifications are listed below. These specifications are from the Cytron Technologies HC-SR04 User's Manual (source

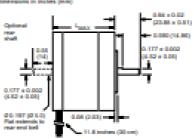
- Power Supply: +5V DC
- Quiescent Current: <2mA
- Working current: 15mA
- Effectual Angle: <15°
- Ranging Distance: 2-400 cm
- Resolution: 0.3 cm
- Measuring Angle: 30°
- Trigger Input Pulse width: 10uS
- Dimension: 45mm x 20mm x 15mm
- Weight: approx. 10 g

Datasheet nema 17 stepper motor

Quick Reference NEMA size 17 1.8° 2-phase stepper motor

Mechanical Specifications Dimensions in Index (mm)







Schneider

Notes and Warnings

Installation, configuration and matchenance must be carried out by qualified tech-risians, only. You must have detailed information to be able to carry ad this sort.

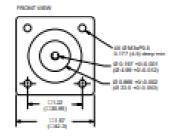
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- Insured use may desirup this product and somewhed sumported
For more information, go to sawa instrume sam

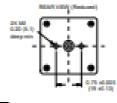
Specifications

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Wiring and Connections

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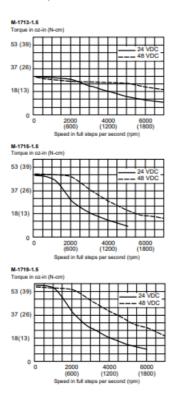
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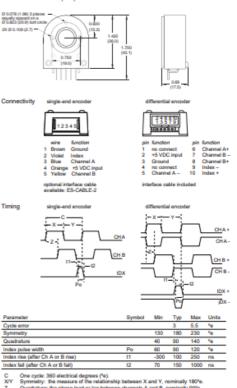
(7) An anomaly regulares the shaft-similarities in the part scentary (2) All anomaly in basis or index much prompt the Will interment service.

Torque-speed performance Measured at 1.5 Amps RMS





Dimensions in inches (mm)



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Datasheet wemos d1

Features of Wemos D1 R2 Wifi -Esp8266 Development Board:

- The D1 R2 is a mini wifi board based on ESP-8266EX •
- 11 digital input/output pins, all pins have interrupt/pwm/I2C/one-wire supported • (except D0)
- 1 analog input (3.3V max input) ٠
- A Micro USB connection .
- A power jack, 9-24V power input •
- Compatible withArduino •
- Compatible with nodemcu •

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Microcontroller	ESP-8266EX
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Operating Voltage	3.3V
Digital I/O Pins	11
Analog Input Pins	1
Clock Speed	80MHz/160MHz
FLash	4M bytes
Length	68.6mm
Width	53.4mm
Weight	25g

