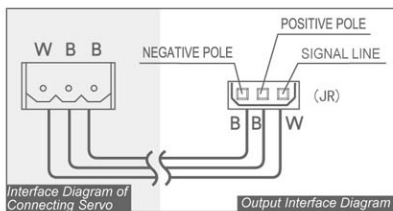# SR40 Series Robot Servo Specification

On the base of successfully researching and manufacturing of high quality servos, Spring Model Electronics CO., LTD has just designed and developed servos specialized in mini-scale robot,namely SR40 Series. As the first generation robot servo of Springrc , SR40 Series not only has characteristic of precision and legerity, but also is easy to use,firm and durable,which is considered the requirement of robot servo. We improved on the inner structure and the design of driving circuit of robot servo, the characteristics of SR40 Series as follow:

1. Its control circuit uses MCU mode,and the control of output axis is pecise and steady.
2. When input signal is 0.5ms ~ 2.5ms,the angle of rotation is -90° ~ +90°.and the servo runs clockwise. Make sure not overstep the above range,or inner spares could be damaged.
3. It sets two interfaces of signal wire on the sides of servo,you can choose either of ones to connect.
4. SR402/SR403, metal output ball bearing adopts hexagon connected with round swing arm to guaratee the reliable of connection.
5. It includes standard connecting wire which is make up of 3 lines with white.black.black colour.output interface is our company's standard one(like JR).The length of wire is 200mm,furthermore 100mm,150mm,200mm,250mm, 300mm is available.
6. The size of the round swing arm adopts general specification and inner screw cap structure to make the combine connection convenient to users and also to expand the service life.
7. Supporting axle adopts the structure of fixing the screw cap inside and locked outside, so that it's convenient to install the out parts of the robot.

MODEL	WEIGHT	TORQUE (kg-cm)		SPEED (sec/60°)		ROTATION SCOPE	SIGNAL WAY	INTERFACE	GEAR	BALL BEARING
		6V	7.4V	6V	7.4V					
SR-401P	44g/1.5oz	3.8	5.0	0.18	0.16	180°	PWM	Bilateral multipled connection	Plastic	1BB
SR-402P	57g/2.0oz	8.2	9.6	0.20	0.18				All metal	2BB
SR-403P	57g/2.0oz	12.0	13.6	0.21	0.19					

! **Operating voltage: 6V ~ 7.4V, can not be used beyond the voltage range, otherwise it may casue unnomal working or damage of servo or electronic components.**

POSITIVE POLE
NEGATIVE POLE
SIGNAL LINE
W B B
(JR)
B B W
Interface Diagram of Connecting Servo
Output Interface Diagram

! **When you use the servo,please pay specially attention to the bearing capacity, because overload will emit heat to damage the servo**

Dimension（Unit：mm）