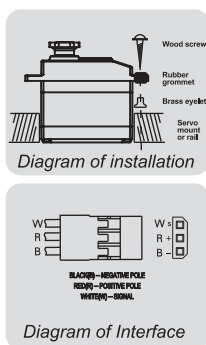
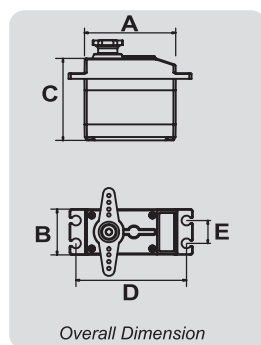


| Item | Type | Size(in) | | | | | Weight oz | 4.8V | | 6V | | Gear* | | Bearing | | Wire cm | Motor | Mesothermal material | Water resistance |
|-----------|---------|----------|------|------|------|------|--------------|------------------|-----------------|------------------|-----------------|-------|----|--------------|------------------|------------|----------------|-------------------------|---------------------|
| | | A | B | C | D | E | | Speed sec/60° | Torque oz.in | Speed sec/60° | Torque oz.in | PG | MG | Roll ball | Aluminum ring | | | | |
| SM-S2213M | Digital | 0.9 | 0.48 | 0.87 | | | 0.47 | 0.09 | 29.16 | 0.07 | 36.11 | 1 | 4 | 1 | 0 | 20 | metal brush | ABS | not |
| SM-S2309S | Analog | 0.9 | 0.48 | 0.87 | | | 0.35 | 0.11 | 15.28 | 0.09 | 18.05 | 4 | 1 | 0 | 0 | 20 | metal brush | ABS | not |
| SM-S2309B | Analog | 0.9 | 0.48 | 0.87 | | | 0.36 | 0.11 | 16.67 | 0.09 | 20.83 | 4 | 1 | 1 | 0 | 20 | metal brush | ABS | not |
| SM-S2309H | Analog | 0.9 | 0.48 | 0.87 | | | 0.41 | 0.11 | 16.67 | 0.09 | 20.83 | 3 | 2 | 0 | 0 | 20 | metal brush | ABS | not |
| SM-S2313M | Analog | 0.9 | 0.48 | 0.87 | | | 0.48 | 0.1 | 18.05 | 0.08 | 22.22 | 1 | 4 | 1 | 0 | 20 | metal brush | ABS | not |
| SM-S3101S | Analog | 1.12 | 0.52 | 1.2 | 1.33 | | 0.60 | 0.18 | 25.0 | 0.16 | 27.78 | 4 | 1 | 0 | 0 | 20 | metal brush | ABS | not |
| SM-S3217M | Digital | 1.23 | 0.65 | 1.13 | 1.5 | 0.31 | 0.95 | 0.21 | 48.61 | 0.17 | 58.33 | 0 | 5 | 2 | 0 | 20 | metal brush | PA66+GF | not |
| SM-S3317S | Analog | 1.23 | 0.65 | 1.13 | 1.5 | 0.31 | 0.67 | 0.15 | 29.16 | 0.12 | 34.72 | 4 | 1 | 0 | 0 | 20 | metal brush | PA66+GF | not |
| SM-S3317B | Analog | 1.23 | 0.65 | 1.13 | 1.5 | 0.31 | 0.71 | 0.14 | 29.16 | 0.11 | 34.72 | 4 | 1 | 1 | 0 | 20 | metal brush | PA66+GF | not |
| SM-S3317H | Analog | 1.23 | 0.65 | 1.13 | 1.5 | 0.31 | 0.78 | 0.13 | 31.94 | 0.1 | 37.50 | 2 | 3 | 1 | 0 | 20 | metal brush | PA66+GF | not |
| SM-S3317M | Analog | 1.23 | 0.65 | 1.13 | 1.5 | 0.31 | 0.95 | 0.16 | 29.16 | 0.13 | 40.27 | 0 | 5 | 2 | 0 | 20 | metal brush | PA66+GF | not |
| SM-S3317N | Analog | 1.23 | 0.65 | 1.13 | 1.5 | 0.31 | 0.95 | 0.16 | 44.44 | 0.13 | 54.16 | 0 | 5 | 2 | 0 | 20 | metal brush | PA66+GF | not |
| SM-S3562H | Analog | 1.4 | 0.6 | 1.2 | 1.66 | 0.28 | 0.88 | 0.1 | 25.00 | 0.07 | 31.94 | 3 | 3 | 1 | 0 | 20 | metal brush | PA66+GF | not |



- ▲ Futaba, JR, Sanwa and Hi-Tech compatible.
- ▲ The series products use the below interface which is our standard interface.(like JR).
- ▲ Refer to the figure when installing the servo accessories.Caution: For engine powered airplanes, helicopter,vehicle model, must use rubber shock pad to fix.
- ▲ Please choose correct model for your application.
Caution: Torque over-loaded will damage the servo's mechanism.
- ▲ Please choose the right power voltage of servo according the specification. And make sure be supplied enough current, or, servo can't work normally. Pls pay more attention that it may affect unnomal working or damage of servo if using the servo overstep the nomal range of voltage.
- ▲ Keep the servo clean and away from dust, corrosive gas and humid air.
- ▲ Our company keep the right of amendment,if there are some changes of parameter and appearance, without notice.

SPRING MODEL ELECTRONICS Co.,LTD. MADE IN CHINA

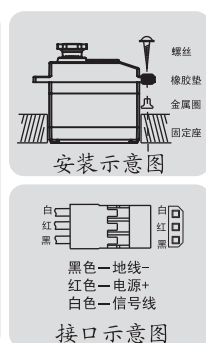
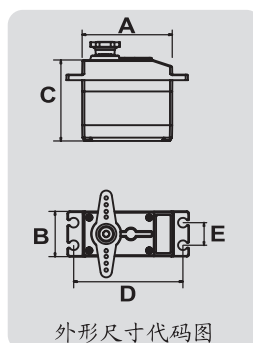
XBB323300119 V2.0



SM-S22/23/31/32/33/35系列舵机规格说明书

感谢您选择春天模型电子产品

| 型号 | 类型 | 尺寸(mm) | | | | | 重量 g | 4.8V | | 6V | | 齿轮数量 | | 轴承数量 | | 连接 线长 cm | 马达类型 | 中壳材料 | 防水 |
|-----------|----|--------|------|------|------|-----|---------|-----------------|-------------|-----------------|-------------|------|----|------|---|----------------|------|---------|----|
| | | A | B | C | D | E | | 转动速度 sec/60° | 扭矩 kg.cm | 转动速度 sec/60° | 扭矩 kg.cm | 塑胶 | 金属 | 滚珠 | 铝 | | | | |
| SM-S2213M | 数字 | 22.9 | 12.3 | 22.2 | | | 13.2 | 0.09 | 2.1 | 0.07 | 2.6 | 1 | 4 | 1 | 0 | 20 | 金属刷 | ABS | 无 |
| SM-S2309S | 模拟 | 22.9 | 12.3 | 22.2 | | | 9.9 | 0.11 | 1.1 | 0.09 | 1.3 | 4 | 1 | 0 | 0 | 20 | 金属刷 | ABS | 无 |
| SM-S2309B | 模拟 | 22.9 | 12.3 | 22.2 | | | 10.3 | 0.11 | 1.2 | 0.09 | 1.5 | 4 | 1 | 1 | 0 | 20 | 金属刷 | ABS | 无 |
| SM-S2309H | 模拟 | 22.9 | 12.3 | 22.2 | | | 11.5 | 0.11 | 1.2 | 0.09 | 1.5 | 3 | 2 | 0 | 0 | 20 | 金属刷 | ABS | 无 |
| SM-S2313M | 模拟 | 22.9 | 12.3 | 22.2 | | | 13.5 | 0.1 | 1.3 | 0.08 | 1.6 | 1 | 4 | 1 | 0 | 20 | 金属刷 | ABS | 无 |
| SM-S3101S | 模拟 | 28.5 | 13.3 | 30.6 | 33.9 | | 17 | 0.18 | 1.8 | 0.16 | 2.0 | 4 | 1 | 0 | 0 | 20 | 金属刷 | ABS | 无 |
| SM-S3217M | 数字 | 31.3 | 16.5 | 28.6 | 38.1 | 8.0 | 27 | 0.21 | 3.5 | 0.17 | 4.2 | 0 | 5 | 2 | 0 | 20 | 金属刷 | PA66+GF | 无 |
| SM-S3317S | 模拟 | 31.3 | 16.5 | 28.6 | 38.1 | 8.0 | 19 | 0.15 | 2.1 | 0.12 | 2.5 | 4 | 1 | 0 | 0 | 20 | 金属刷 | PA66+GF | 无 |
| SM-S3317B | 模拟 | 31.3 | 16.5 | 28.6 | 38.1 | 8.0 | 20 | 0.14 | 2.1 | 0.11 | 2.5 | 4 | 1 | 1 | 0 | 20 | 金属刷 | PA66+GF | 无 |
| SM-S3317H | 模拟 | 31.3 | 16.5 | 28.6 | 38.1 | 8.0 | 22 | 0.13 | 2.3 | 0.1 | 2.7 | 2 | 3 | 1 | 0 | 20 | 金属刷 | PA66+GF | 无 |
| SM-S3317M | 模拟 | 31.3 | 16.5 | 28.6 | 38.1 | 8.0 | 27 | 0.16 | 2.1 | 0.13 | 2.9 | 0 | 5 | 2 | 0 | 20 | 金属刷 | PA66+GF | 无 |
| SM-S3317N | 模拟 | 31.3 | 16.5 | 28.6 | 38.1 | 8.0 | 27 | 0.16 | 3.2 | 0.13 | 3.9 | 0 | 5 | 2 | 0 | 20 | 金属刷 | PA66+GF | 无 |
| SM-S3562H | 模拟 | 35.5 | 15.3 | 30.6 | 42.2 | 7.1 | 25 | 0.1 | 1.8 | 0.07 | 2.3 | 3 | 3 | 1 | 0 | 20 | 金属刷 | PA66+GF | 无 |



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- ▲ 请使用本品附件按附图所示正确实施舵机的安装，特别提示：用于震动较大的油动飞机、直升机、车模及船模时，必须使用橡胶减震垫固定。
- ▲ 请选择合适规格匹配于被控体，特别提示：扭矩规格不可过载，否则会造成机构损坏。
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