

# Pro Range

Servo Model: OS90R Datasheet



| SN                        | Electrical Specification:     |                            |                          |
|---------------------------|-------------------------------|----------------------------|--------------------------|
| 1                         | Model                         | OS5103B                    |                          |
| 2                         | Input Voltage Range (VDC)     | 4.8V-6V                    |                          |
|                           |                               | <a href="#">Specs@4.8V</a> | <a href="#">Specs@6V</a> |
| 3                         | Rated Operating Voltage (VDC) | 4.8                        | 6                        |
| 4                         | No Load Speed (RPM)           | 80                         | 100                      |
| 5                         | No Load Running Current (mA)  | 110                        | 130                      |
| 6                         | Stall Torque (Kg.Cm)          | 1.3                        | 1.5                      |
| 7                         | Stall Current (A)             | .7 A                       | .8 A                     |
| 8                         | Idle Current (mA)             | 5mA                        | 6mA                      |
|                           |                               |                            |                          |
|                           |                               |                            |                          |
|                           |                               |                            |                          |
| Mechanical Specification: |                               |                            |                          |
| 9                         | Size (L x W x H) mm           | 22.5x 12x 27.5             |                          |
| 10                        | Case material                 | Nylon & Fiberglass         |                          |
| 11                        | Gear material                 | Plastic                    |                          |
| 12                        | Bearing type                  | 2 Ball bearings            |                          |
| 13                        | Angle Sensor                  | No limit                   |                          |
| 14                        | Connector and Cable           | Cable Length: 25 cm        |                          |
|                           |                               | Connector: JR              |                          |
| 15                        | Pin Definition                | 1.Brown: GND               |                          |
|                           |                               | 2.Red: VCC                 |                          |
|                           |                               | 3.Orange: Signal           |                          |
| 16                        | Horn Type                     | Plastic, POM               |                          |
| 17                        | Operating Travel              | 360°                       |                          |
| 18                        | Temperature protection        | >70°C                      |                          |
|                           |                               |                            |                          |
|                           |                               |                            |                          |
|                           |                               |                            |                          |
|                           |                               |                            |                          |

