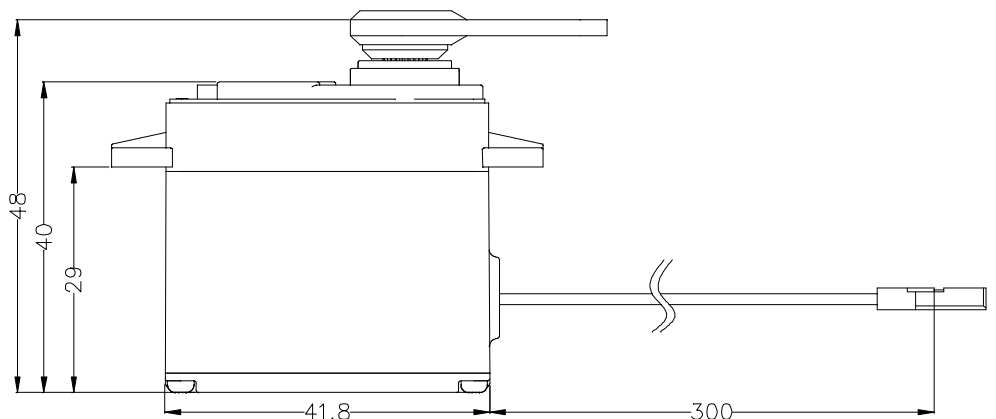
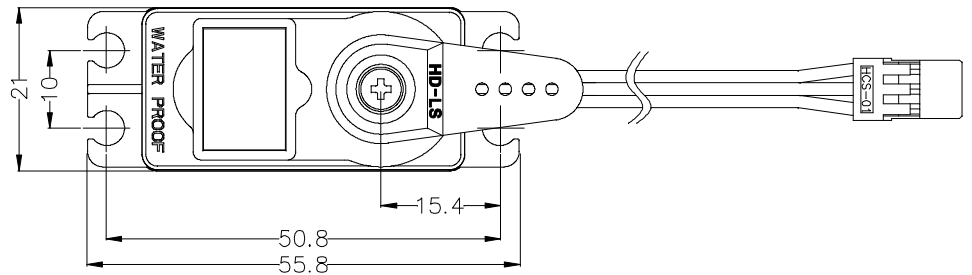


GENERAL SPECIFICATION OF HS-5646WP ULTRA TORQUE WATER PROOF SERVO

1. TECHNICAL VALUE

| | | |
|-------------------------------|--|------------------------|
| CONTROL SYSTEM | : +PULSE WIDTH CONTROL 1500usec NEUTRAL | |
| OPERATING VOLTAGE RANGE | : 6.0V TO 7.4V | |
| OPERATING TEMPERATURE RANGE | : -20°C TO +60°C (-4°F TO +140°F) | |
| TEST VOLTAGE | : AT 6.0V | AT 7.4V |
| OPERATING SPEED | : 0.2sec/60° AT NO LOAD | 0.18sec/60° AT NO LOAD |
| STALL TORQUE | : 11.3kg.cm(156.92oz.in) | 12.9kg.cm(179.14oz.in) |
| STANDING TORQUE | : - | |
| IDLE CURRENT | : 4.5mA AT STOPPED | 4.5mA AT STOPPED |
| RUNNING CURRENT | : 270mA/NO LOAD RUNNING | 330mA/NO LOAD RUNNING |
| STALL CURRENT | : 1670mA/ | 2100mA |
| DEAD BAND WIDTH | : 4usec | |
| OPERATING TRAVEL | : 40±5°/ONE SIDE PULSE TRAVELING 400usec | |
| DIRECTION | : CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec | |
| MOTOR TYPE | : CORED METAL BRUSH | |
| POTENTIOMETER TYPE | : 4 SLIDER/1M CYCLE LONG LIFE/INDIRECT DRIVE | |
| AMPLIFIER TYPE | : ATMEGA48 MCU DIGITAL AMPLIFIER WITH MOSFET DRIVE | |
| DIMENSIONS | : 41.8x21.0x40.0mm(1.65x0.83x1.57in) | |
| WEIGHT | : 61g(2.15oz) | |
| BALL BEARING | : DUAL MR106 | |
| GEAR MATERIAL | : 3 Metal gears & 1 MP first gear | |
| HORN GEAR SPLINE | : 24 SEGMENTS/∅5.76 | |
| SPLINED HORNS | : HEAVY DUTY/HD-IS,HD-O,HD-LS,HD-IL,HD-LL | |
| CONNECTOR WIRE LENGTH | : 300mm(11.81in) | |
| CONNECTOR WIRE STRAND COUNTER | : 0.08X60EA | |
| CONNECTOR WIRE GAUGE | : 22AWG | |
| Duration of the test in water | : 30min | |



2. FEATURES

- IP67 WATER PROOF CASE
- DURABLE METAL GEARS WITH BALL BEARING
- ULTRA TORQUE
- HEAVY DUTY SPLINED HORNS

3. APPLICATIONS

- 60 HELICOPTERS
- GAS & ELECTRIC CARS
- BOATS