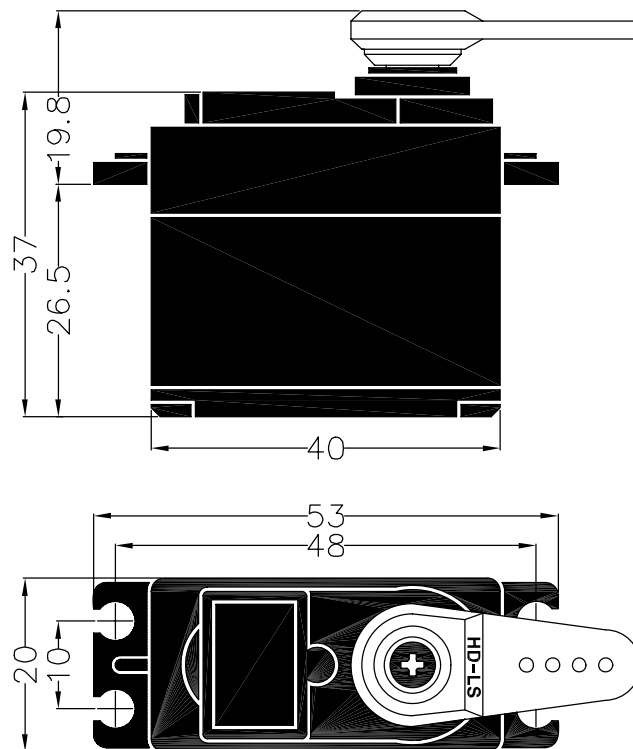


# GENERAL SPECIFICATION OF HS-7975HB CORELESS DIGITAL SERVO

## 1. TECHNICAL VALUE

CONTROL SYSTEM	: +PULSE WIDTH CONTROL 1500usec NEUTRAL	
OPERATING VOLTAGE RANGE	: 4.8V TO 6.0V	
OPERATING TEMPERATURE RANGE	: -20° C TO +60° C (-68° F TO +140° F)	
TEST VOLTAGE	: AT 4.8V	AT 6.0V
OPERATING SPEED	: 0.14sec/60° AT NO LOAD	0.11sec/60° NO LOAD
STALL TORQUE	: 6.6kg.Cm(91.65oz.In)	8.2kg.cm(113.87oz.In)
STANDING TORQUE	: 8.6kg.cm(119.42oz.in)/5° HOLD OUT	10.7kg.cm(148.59oz.in)/5° HOLD OUT
IDLE CURRENT	: 9mA AT STOPPED	
RUNNING CURRENT	: 200mA/60° AT NO LOAD RUNNING	240mA/60° AT NO LOAD RUNNING
STALL CURRENT	: 2400mA	3000mA
DEAD BAND WIDTH	: 1usec	1usec
OPERATING TRAVEL	: 40° /ONE SIDE PULSE TRAVELING 400usec	
DIRECTION	: CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec	
MOTOR TYPE	: CORELESS METAL BRUSH	
POTENTIOMETER TYPE	: 6 SLIDER/INDIRECT DRIVE	
AMPLIFIER TYPE	: DIGITAL CONTROLLER & MOSFET DRIVER	
DIMENSIONS	: 40x20x37mm(1.57x0.78x1.45in)	
WEIGHT	: 53g(1.87oz)	
BALL BEARING	: DUAL/MR106	
GEAR MATERIAL	: HEAVY DUTY RESIN	
HORN GEAR SPLINE	: 24 SEGMENTS/∅5.76	
SPLINED HORNS	: HEAVY DUTY/HD-IL,HD-IS,HD-O,HD-LL,HD-LS	
CONNECTOR WIRE LENGTH	: 300mm(11.81In)	
CONNECTOR WIRE STRAND COUNTER	: 60EA	
CONNECTOR WIRE GAUGE	: 22AWG	



## 2. FEATURES

- PROGRAMMABLE DIGITAL AMPLIFIER WITH CORELESS MOTOR
- DURABLE HEAVY DUTY RESIN GEARS WITH BALL BEARINGS
- WATER & DUST TIGHT

## 3. APPLICATIONS

AIRCRAFT 20-60 SIZE, 60 SIZE HELICOPTERS, STEERING AND THROTTLE SERVO, TRUCK AND BOATS