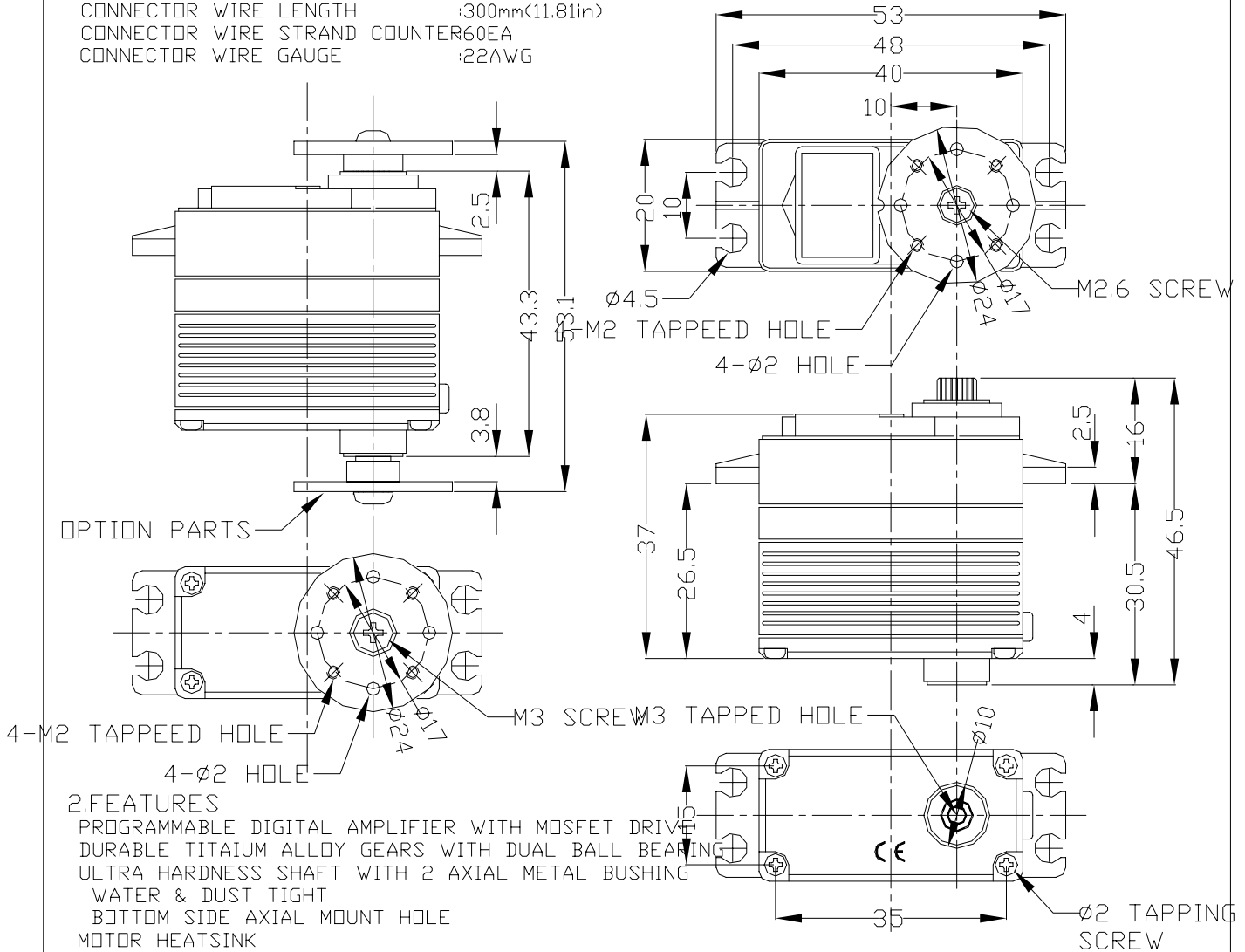


GENERAL SPECIFICATION OF HSR-5990TG CORELESS DIGITAL ROBOT SERVO

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	: 0.17sec/60° AT NO LOAD	0.14sec/60° AT NO LOAD
STALL TORQUE	: 24.0kg.cm(333.29oz.in)	30.0kg.cm(416.61oz.in)
STANDING TORQUE	: 31.2kg.cm(433.27oz.in)/5° HOLDDOUT	39.0kg.cm(541.59oz.in)/5° HOLDDOUT
IDLE CURRENT	: 8mA AT STOPPED	10mA AT STOPPED
RUNNING CURRENT	: 300mA/NO LOAD RUNNING	380mA/NO LOAD RUNNING
STALL CURRENT	: 4200mA	5200mA
DEAD BAND WIDTH	: 2usec	2usec
OPERATING TRAVEL	: 90±1°/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 AMPLIFIER WITH MOSFET DRIVE	
DIMENSIONS	: 40x20x37mm(1.57x0.78x1.45in)	
WEIGHT	: 68g(2.39oz)	
BALL BEARING	: DUAL/MR106	
GEAR MATERIAL	: 1 METAL-KARBONITE & 3 TITANIUM GEARS	
HORN GEAR SPLINE	: 24 SEGMENTS/φ5.76	
SPLINED HORNS	: REGULAR METAL: R-MD	
CONNECTOR WIRE LENGTH	: 300mm(11.81in)	
CONNECTOR WIRE STRAND COUNTER	60EA	
CONNECTOR WIRE GAUGE	: 22AWG	



2. FEATURES

- PROGRAMMABLE DIGITAL AMPLIFIER WITH MOSFET DRIVE
- DURABLE TITANIUM ALLOY GEARS WITH DUAL BALL BEARING
- ULTRA HARDNESS SHAFT WITH 2 AXIAL METAL BUSHING
- WATER & DUST TIGHT
- BOTTOM SIDE AXIAL MOUNT HOLE
- MOTOR HEATSINK

3. APPLICATIONS

ROBOTS