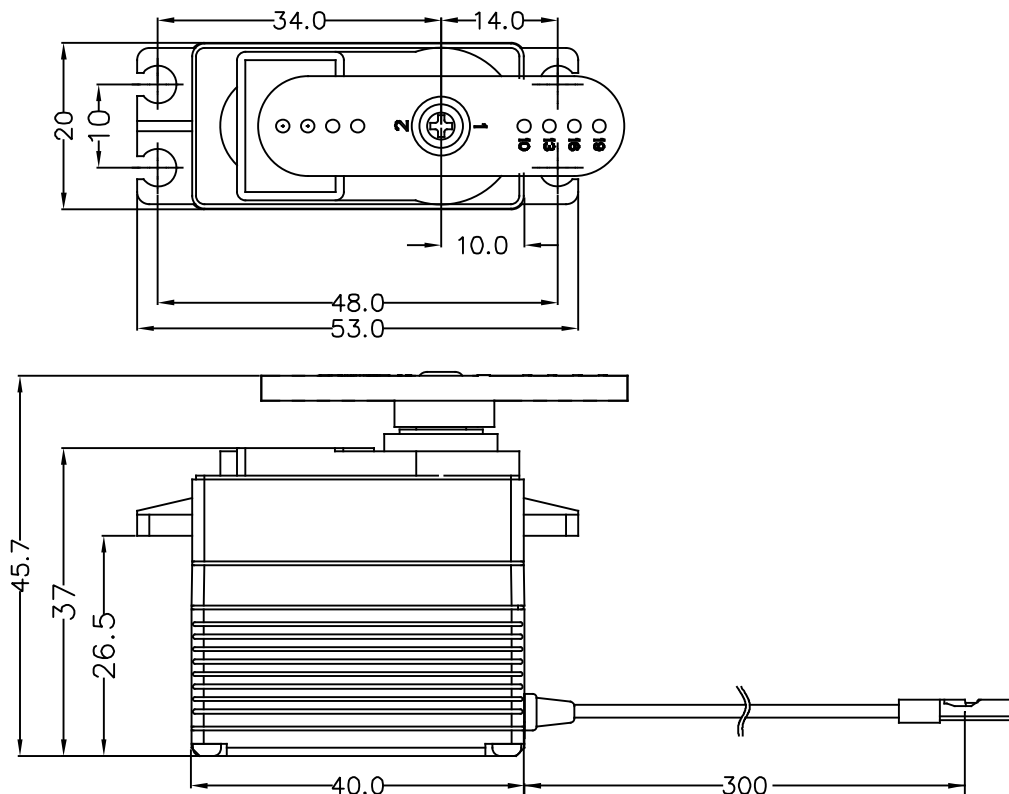


# GENERAL SPECIFICATION OF D955CR STANDARD SIZE CORELESS SPEED TYPE SERVO

## 1. TECHNICAL VALUE

CONTROL SYSTEM	:+PULSE WIDTH CONTROL 900~2100us,1500us NEUTRAL		
OPERATING VOLTAGE RANGE	:4.8V TO 7.4V		
OPERATING TEMPERATURE RANGE	:-20°C TO +60°C(-4°F TO +140°F)		
TEST VOLTAGE	:AT 4.8V	AT 6.0V	AT 7.4V
OPERATING SPEED	:53rpm±10%(0.19sec/60°)	67rpm±10%(0.15sec/60°)	83rpm±10%(0.12sec/60°)
STALL TORQUE	:16.0kg.cm(222oz.in)	20.0kg.cm(278oz.in)	24.5kg.cm(340oz.in)
STANDING TORQUE	:-		
IDLE CURRENT	:20mA	20mA	20mA
RUNNING CURRENT	300mA	400mA	500mA
STALL CURRENT	:3,200mA	4,200mA	5,200mA
DEAD BAND WIDTH	:1us	1us	1us
OPERATING TRAVEL	:CONTINUE ROTATION		
DIRECTION	:CLOCK WISE/PULSE TRAVELING 1500 TO 1900usec		
NEUTRAL POSITION	:1500usec +/- 50usec		
FULL SPEED POSITION	:1000usec/2000usec		
MOTOR TYPE	:CORELESS METAL BRUSH		
POTENTIOMETER TYPE	:NON		
AMPLIFIER TYPE	:32BIT MCU DIGITAL AMPLIFIER WITH MOSFET DRIVE		
DIMENSIONS	:40x20x37mm(1.57x0.78x1.45in)		
WEIGHT	:63.9g(2.25oz)		
BALL BEARING	:DUAL/MR106		
GEAR MATERIAL	:1 METAL-PLASTIC & 3 STEEL GEARS		
HORN GEAR SPLINE	:25 SEGMENTS/ø6.00		
SPLINED HORNS	::HEAVY DUTY/HD-IM25,HD-LS25,HD-OS25,HD-X25		
CONNECTOR WIRE LENGTH	:300mm(11.81in)		
CONNECTOR WIRE STRAND COUNTER	:80EA		
CONNECTOR WIRE GAUGE	:20AWG		



## 2. FEATURES

- PROGRAMMABLE HIGH RESPONDENCE DIGITAL AMPLIFIER WITH MOSFET DRIVE
- DURABLE STEEL GEARS WITH DUAL BALL BEARING
- ULTRA HARDNESS SHAFT WITH 3 AXIAL METAL BUSHING
- WATER & DUST RESISTANCE
- HEAT SINK FOR MOTOR
- 360° ROTATION

## 3. APPLICATIONS

ROBOTICS