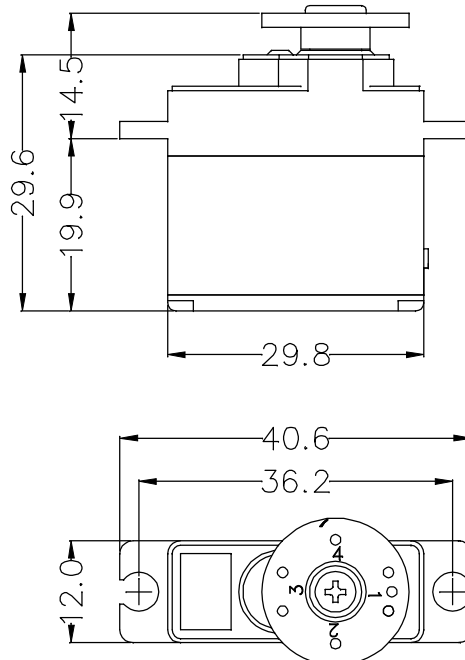


GENERAL SPECIFICATION OF HS-82MG METAL GEAR MICRO SERVO

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 (-4°F TO +140°F)		
TEST VOLTAGE	: AT 4.8V		
OPERATING SPEED	: 0.12sec/60° AT NO LOAD	AT 6.0V	0.10sec/60° AT NO LOAD
STALL TORQUE	: 2.8kg.cm(38.88oz.in)	3.4kg.cm(47.22oz.in)	
STANDING TORQUE	: 2.2kg.cm(30.55oz.in)/5° HOLDOUT	2.7kg.cm(37.50oz.in)/5° HOLDOUT	
IDLE CURRENT	: 10mA AT STOPPED	10mA AT STOPPED	
RUNNING CURRENT	: 220mA/60° AT NO LOAD	280mA/60° AT NO LOAD	
STALL CURRENT	: 1,450mA	1,800mA	
DEAD BAND WIDTH	: 5usec	5usec	
OPERATING TRAVEL	: 40°/ONE SIDE PULSE TRAVELING	400usec	
DIRECTION	: CLOCK WISE/PULSE TRAVELING	1500 TO 1900usec	
ROTATIONAL LIFE	: 20,000cycle MIN/0.8kg.cm LOADED		
GEAR STRENGTH	: 11kg.cm MIN		
MOTOR TYPE	: CORED METAL BRUSH		
POTENTIOMETER TYPE	: 2 SLIDER/DIRECT DRIVE		
AMPLIFIER TYPE	: ANALOG SMT		
DIMENSIONS	: 29.8x12.0x29.6mm(1.17x0.47x1.16in)		
WEIGHT	: 19.0g(0.66oz)		
BALL BEARING	: NON		
GEAR MATERIAL	: 4 METAL		
HORN GEAR SPLINE	: 24 SEGMENTS/φ5.76		
SPLINED HORNS	: MICRO/M-I,M-O,M-X)		
CONNECTOR WIRE LENGTH	: 250mm(9.84in)		
CONNECTOR WIRE STRAND COUNTER	: 20 EA		
CONNECTOR WIRE GAUGE	: 28AWG		



2. FEATURES

LOW WEIGHT METAL GEARS

3. APPLICATIONS

SMALL PLANES
GLIDERS
ELECTRIC HELICOPTER
1/18 SCALE CARS