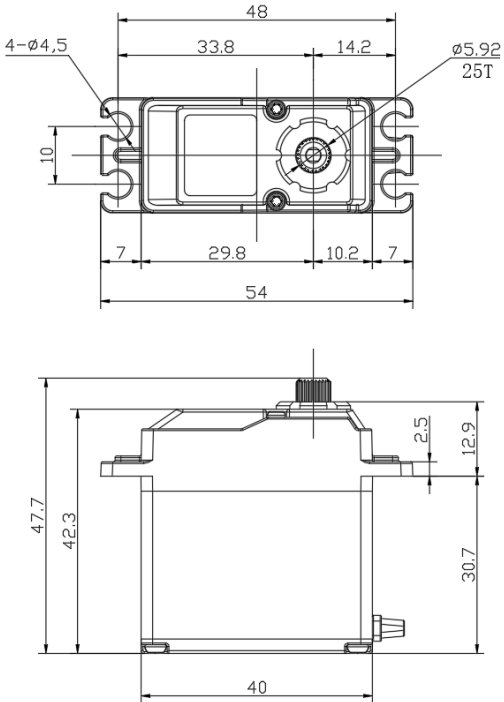


PRODUCT SPECIFICATION

RS20DS

Control System	Pulse width modulation control		
Refresh Rate	333Hz		
Neutral Position	1520μS		
Signal Mode	Digital		
Dead band	4 μSec		
Operating Voltage	4.8V ~ 8.4V		
Operating Temperature	-15C° ~ +70C°		
Bearing	Double Ball Bearings		
Mechanical Angle	220°		
Size	40*20*42.3mm		
Net Weight	63g		
Wire	JR 360mm / 22AWG		
Operating Travel	180°±10°		
Signal Range	500 to 2500 μSec		
Stall Torque	13.0 kg-cm (180 oz-in) @ 4.8V 15.0 kg-cm (208 oz-in) @ 6.0V 18.0 kg-cm (248 oz-in) @ 7.4V 20.0 kg-cm (278 oz-in) @ 8.4V	Unload Current	500mA @ 4.8V 550mA @ 6.0V 600mA @ 7.4V 700mA @ 8.4V
Operating Speed	0.230sec/ 60° @ 4.8V 0.210sec/60° @ 6.0V 0.185sec/60° @ 7.4V 0.170sec/60° @ 8.4V	Loading Current	2400mA @ 4.8V 2700mA @ 6.0V 2900mA @ 7.4V 3200mA @ 8.4V
Direction	☒ CCW ☐ CW		
Waterproof Level	☐ IP65 ☐ IP67		
Angle Sensor	☒ Potentiometer ☐ Magnet Angle Sensor		
Motor Type	☐ Brushless ☐ Coreless ☒ DC		
Motor Drive	☒ FET Drive ☐ IC Drive ☐ Transistor Drive		
Programmable	☒ Yes ☐ No		
Gear Material	☐ Strength Steel ☒ Titanium ☐ Copper ☐ Plastic		
Horn Gear Spline	☒ 25T-ø5.92mm ☐ 25T-ø4.94mm ☐ Other _____		
Case Material	☐ AL6061T6 ☒ Aluminum + Plastic ☐ Plastic		
Bearing Material	☒ Metal ☐ Plastic		
Horn Accessories	☐ AL6061T6 ☒ Plastic		
Wire Color	Negative: ☒ Black ☐ Brown Positive: ☐ Black ☒ Red Signal: ☐ Grey ☒ White ☐ Orange		