

01™ Hitec HS-422 15bit SMS V3.0



The Super Sport - Supermodified Servo

No DEAD ZONE - Continuous Rotation - Full PID Control

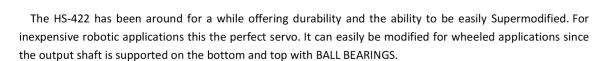
15 bit ABSOLUTE ENCODER

Overview

Our Hitec Super sport - supermodified servos are based on a version of HS422 Supersport servo and are modified for continuous rotation of the output shaft (by removing in our lab the mechanical stop from the output servo gear) offering innovative PID position/speed control, rendering appropriate solutions for most robotics applications. And don't worry we offer you also a legacy PPM interface.

The HS-422 servos are powered by Hitec technology. The gears and the motor of this specific servo are manufactured by

Hitec and their torque rating is 56.93 oz-in (4.1 kgcm) @ 6V. The equipped ferrite motor can operate also up to 6.0 Volts.



... and don't worry we are offering a warranty of 2 years.



Specifications



Hitec HS - 422 15bit SMS V3.0



Supersport

Weight (gr)	45.5	Actuator Mode	Yes
Dimensions (mm)	40.39 x 19.56 x 36.58	Wheel Mode	Yes
Resolution	0.011 degs	Communication without additional electronics	RS-485/I2C/LEGACY PPM
Rotation Measurement	Continuous (64bit position counter)	Position Feedback	Yes
Encoder Type	Absolute Magnetic Encoder	Load Voltage Feedback	Yes
Ticks/rev	32768	Input Voltage Feedback	Yes
Torque (oz-in)	45.82 @ 4.8V / 56.93 @ 6V	Compliance/PID	Yes
Torque (oz-in) Torque (kg-cm)	45.82 @ 4.8V / 56.93 @ 6V 3.3 @ 4.8V / 4.1 @ 6V	Compliance/PID Current Measurement	Yes Yes
Torque (kg-cm) Speed (No Load) RPM		•	
Torque (kg-cm) Speed (No Load) RPM Maximum	3.3 @ 4.8V / 4.1 @ 6V	Current Measurement	Yes See our manual commands
Torque (kg-cm) Speed (No Load) RPM	3.3 @ 4.8V / 4.1 @ 6V 62.5	Current Measurement Overload Protection	Yes See our manual commands 11.2.6 & 11.2.7 (pp28,29)
Torque (kg-cm) Speed (No Load) RPM Maximum Current	3.3 @ 4.8V / 4.1 @ 6V 62.5 4900 mA	Current Measurement Overload Protection Velocity	Yes See our manual commands 11.2.6 & 11.2.7 (pp28,29) Can be provided as ticks/sec

Also keep in mind ...

- Modified for continuous rotation (360 degrees) with 32768 ticks/rev!
- Highly responsive & accurate for the price!
- Continuous Rotation WITHOUT DEAD BAND and 4.1 kgcm torque (@6V)
- Selection of communication bus: I2C, RS485 and Legacy PPM offered.
- Absolute Position measurement (repeatability up to 20 ticks).
- Nylon Gears.
- Dual Ball Bearings-Not oilite bushings!
- 64 bit position measurement.



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