

Hiwonder

HTS-30HS Bus Servo Datasheet

V1.0



Hiwonder Official Website

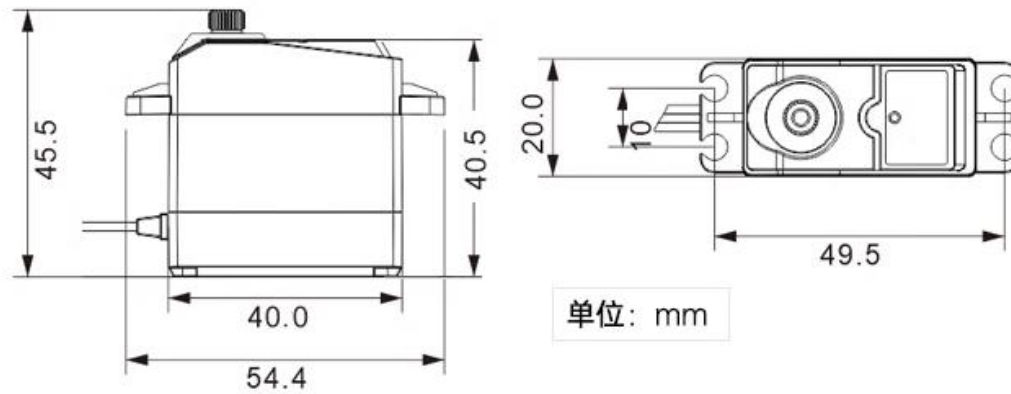


Version No.	Revised Date	Revised Version
V1.0	20230923	Initial Release

Product Name: HTS-30HS Bus Servo

Product Description: 6V 20kg Servo

Drawing :



1. Operating Condition

No.	Item	Specification
1-1	Storage temperature	-30℃～80℃
1-2	Operating temperature	-25℃～70℃
1-3	Operating voltage	6-8.4V

2. Mechanical Characteristic

No.	Item	Specification
2-1	Dimension	40*20*40.5mm
2-2	Weight	64g

2-3	Gear ratio	293
2-4	Bearing	Single shaft
2-5	Motor	3-pole(s)
2-6	Water-resistant	No
2-7	Connector	PH2.0-3P

3. Electronic Characteristic

No.	Item	Specification
3-1	Operating voltage	9-12.6V
3-2	No-load current	100mA
3-3	Speed	0.10 sec/60°12V
3-4	Stalled torque	30 kg-cm 12V
3-5	Stalled current	3.2A

4. Control Characteristic

No.	Item	Specification
4-1	Communication baud rate	115200
4-2	Control method	UART serial command
4-3	Storage	Power-off save user settings
4-4	Servo ID	0-253 for user customization, 1 by default
4-5	Readback function	Support the retrieval of angle data
4-6	Protection	Avoid stalling and overheat
4-7	Parameter feedback	Temperature/Voltage/Position
4-8	Working mode	Servo mode/geared motor mode
4-9	Motion angle range	0~1000, corresponding to 0~240°
4-10	Central position	500 (120°)
4-11	Control frequency	50-330Hz
4-12	Accuracy	0.3°

5. Interface Layout & Instruction



Pin (from left to right)	Instruction
GND	Power ground
VIN	Power input
SIG	Signal terminal, (half-duplex UART asynchronous serial interface)

Note: When the servo and the microcontroller are not using the same power supply, ensure that the two power supplies share a common ground.