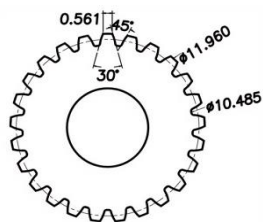
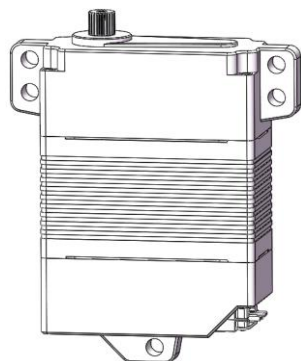
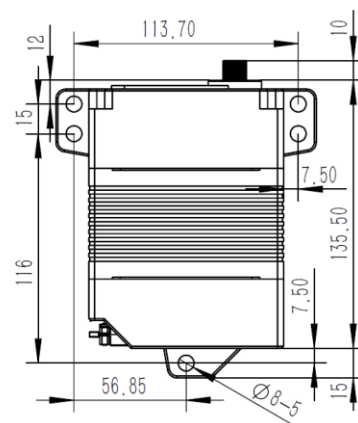
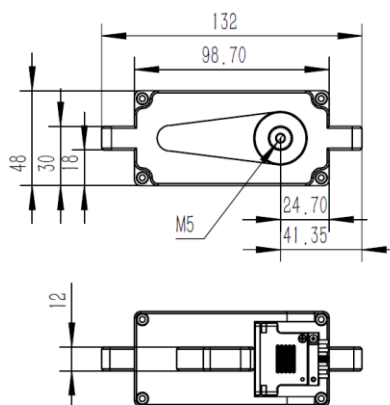


HS50-30-M- 8060-x Technical Specification

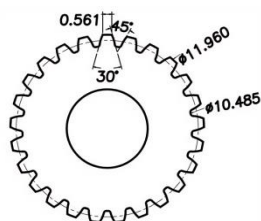
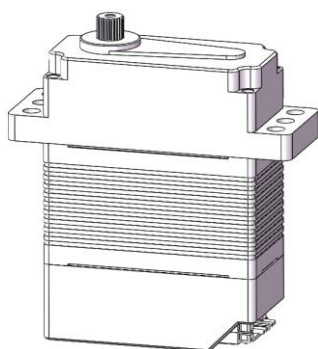
Version A



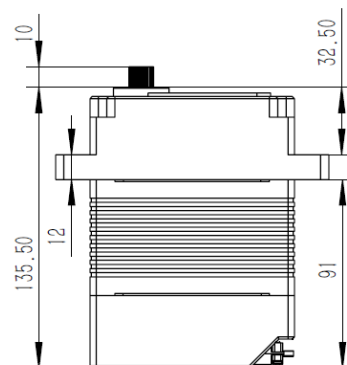
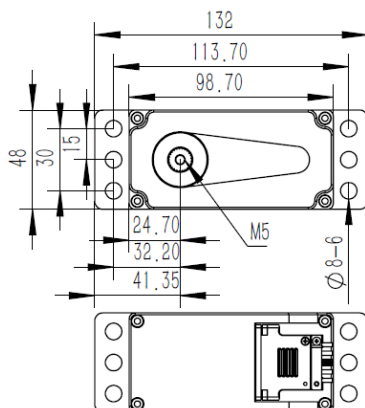
25T-12mm
Output Shaft Spline



Version B



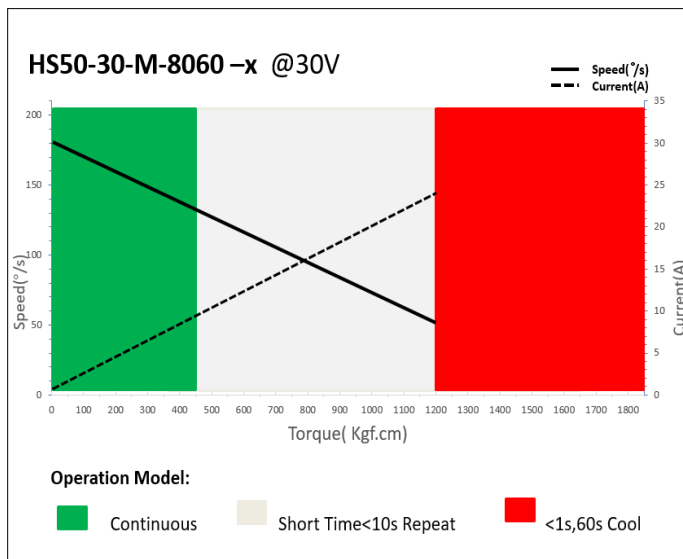
25T-12mm
Output Shaft Spline



1. Servo Data

Rated Voltage	DC30V
Voltage Range	DC24V-32V
Stalling Torque	1200Kgf.cm@30V
Rated Torque	450Kgf.cm@30V
Stalling Current	32.5A
Rated Current	9.50A
No-load Speed	180°/s @25°C/30V
Rated Speed	130°/s @25°C/30V
Default Travel Angle	±100° = 200° total travel
Temperature Range	-30°C.....+65°C
Case Material	Aluminum Alloy 7075
Motor Type	Brushless DC Motor
Gear Set Material	Hardened Steel
Position Sensor	Contactless
Shielded Connecting Cable	J30J-11P04JS/1500mm
Ball Bearing	6BB
Case Dimensions	98.7*48*135.5mm(±0.2mm)
Weight	1480g(±5%)

2. Performance



3. Command Signal

3.1 PWM Command Interface

Signal Voltage	HIGH:min.3.3V,max.5.0V Low:min.0.0V,max.1.5V
Pulse Lengths	500us-2500us
Pulse Lengths for Position	500us/1500us/2500us -100°/0°/+100°

3.2 RS485 / RS422 Command Interface

Baud-Rate	115200 ±1.5% bits/s
Protocol (Documentation available)	10 Byte (incl. 1 byte Check Sum)

3.2.1 RS485 / RS422 Protocol Specifications

Number of Data Bits	8
Number of Stop Bits	1
Parity	None

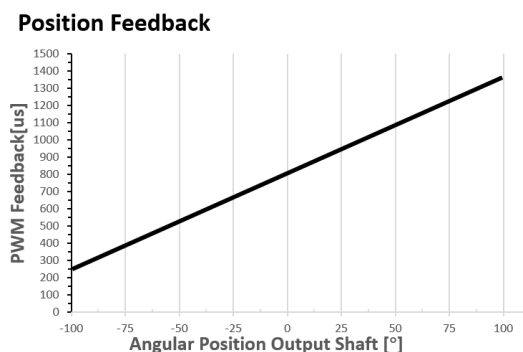
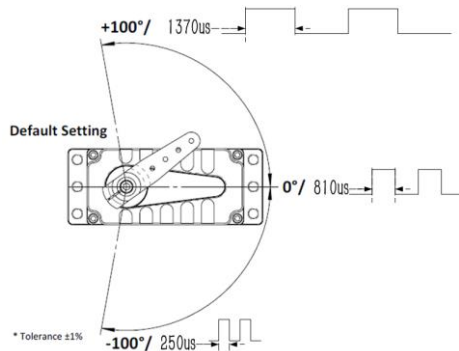
3.3 CAN Bus Command Interface

Baud-Rate	500Kbps	Communication	3.1: CAN Open standard frame 3.2: CAN Extended frame
Node number	0 x25 (range 1 ~ 127, 0 is radio)		

3.4. Feedback Signal

3.4.1 Position Feedback Signal (PWM Versions)

The Position Feedback signal is an output signal with a square wave, which is directly related to the output shaft's angular position. Reference is Supply Ground.



3.4.2 Feedback Value (Bus Version)

Integrated in the Bus protocol a Feedback Value, including the Angle position, Temperature, current value. Value read by sending request command. Provide the details of the bus in the document.

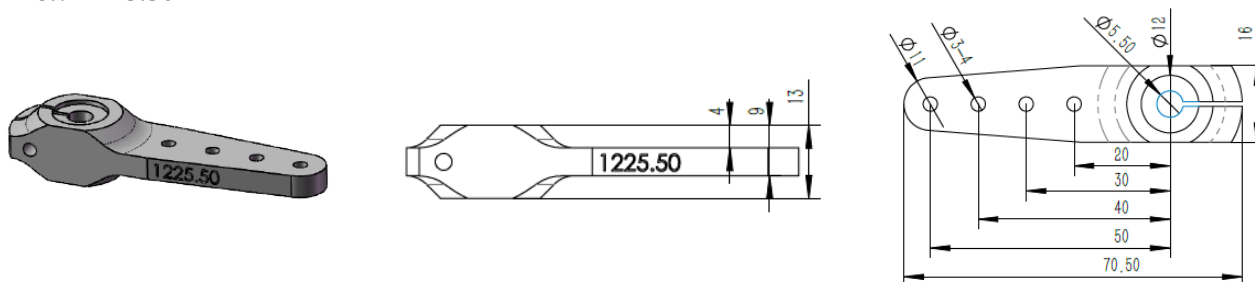
4. Industrial Standard J30J-11P04KP Electrical Connector Pin Assignment

	Assignment PWM			Assignment RS485			Assignment CAN			Assignment RS422	
	A	B		A	B		A	B		A	B
	DC +	Supply Voltage		DC +	Supply Voltage		DC +	Supply Voltage		DC +	Supply Voltage
	DC-	Supply Ground		DC-	Supply Ground		DC-	Supply Ground		DC-	Supply Ground
	1	PWM		1	NC		1	NC		1	NC
	2	Command Signal		2	Do not connect		2	Do not connect		2	Do not connect
	3	Feedback Signal+		3	RS485A		3	CAN High		3	RX+
	4	Feedback Signal-		4	RS485B		4	CAN Low		4	RX-
	5	Feedback Signal-		5	RS485B		5	CAN Low		5	TX+
	6	Feedback Signal-		6	RS485B		6	CAN Low		6	TX-
	7	Reserve		7	Reserve		7	Reserve		7	Reserve

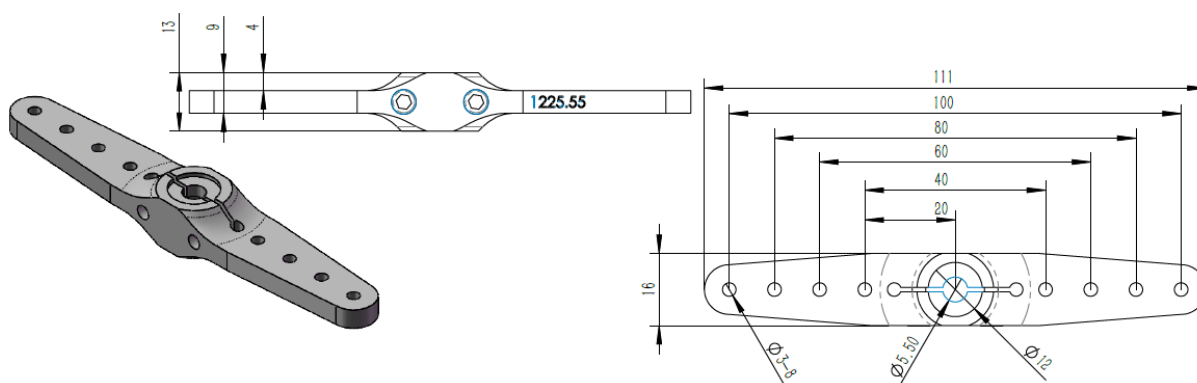
5. Accessories List

Model	Output Shaft Spline	Item	Item No.
HS50-30-M-8060-x	25T 12mm	Aluminum Servo Arm (Single side)	1225.50
		Aluminum Servo Arm (Double side)	1225.55
		Aluminum Servo Disc	1225.16.5

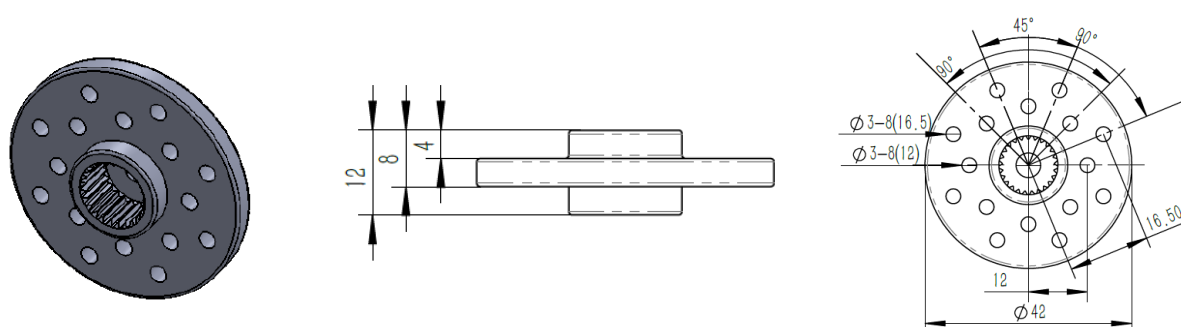
Item No.: 1225.50



Item No.: 1225.55



Item No.: 1225.16.5



6. Item Number System

