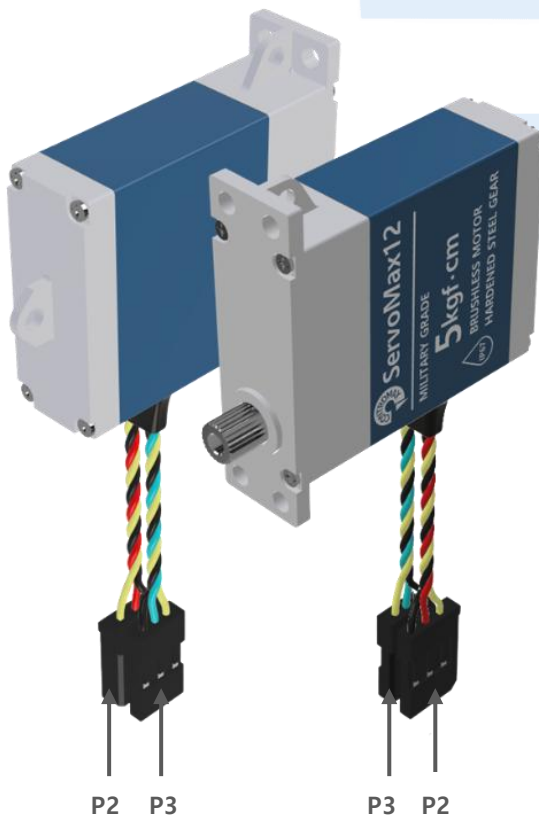


Specifications

	HYBRID	CAN	PWM
Processor	High Performance DSP		
Main Components	High reliability BLDC motor & Contactless Position Sensor		
Max. Operating Torque	5.0 kgf·cm (0.49Nm) @ 25°C		
Rated Speed	215°/s @ 7.4VDC		
No Load Speed	430°/s @ 7.4 VDC		
Operating Voltage	4.8 ~ 8.4 VDC		
Rated Current	0.7A		
Control Accuracy	≤ 1° (Including Backlash)		
Bandwidth	16Hz @ 4° Sine Wave		
Operating Temperature	-40°C ~ -71°C		
Interface	CAN/PWM	CAN	PWM
Weight	38g	42g	42g
Max. Travel Angle	±170° (Adjustable), ±60°(Default)		±60°(Fixed)
Connector	P2 for PWM, P3 for CAN	-	-
Material Type	Stainless Steel Gear, Aluminium Case(With Anodized)		

Appearance & Electrical Interface

HYBRID



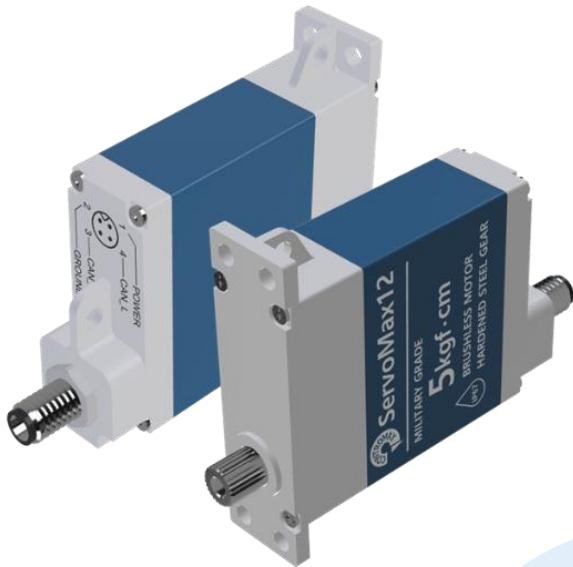
P2 Connector (CAN)

Pin	Signal	Remarks
1(Yellow)	CAN_H	-
2(Green)	CAN_L	-
3(Black)	GROUND	-

P2 Connector (PWM)

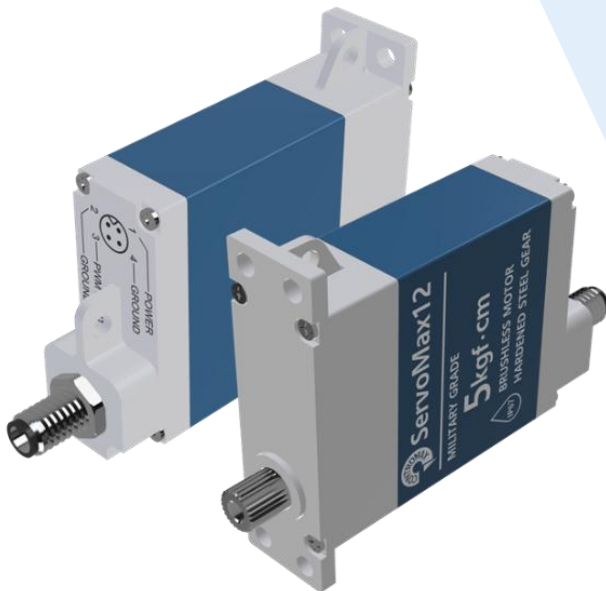
Pin	Signal	Remarks
1(Black)	GROUND	-
2(Red)	POWER	4.8~8.4 VDC
3(Yellow)	PWM INPUT	TTL, 0.9~2.1ms /50~333Hz

CAN



Pin	Signal	Remarks
1	POWER	4.8~8.4VDC
2	GROUND	-
3	CAN_H	-
4	CAN_L	-

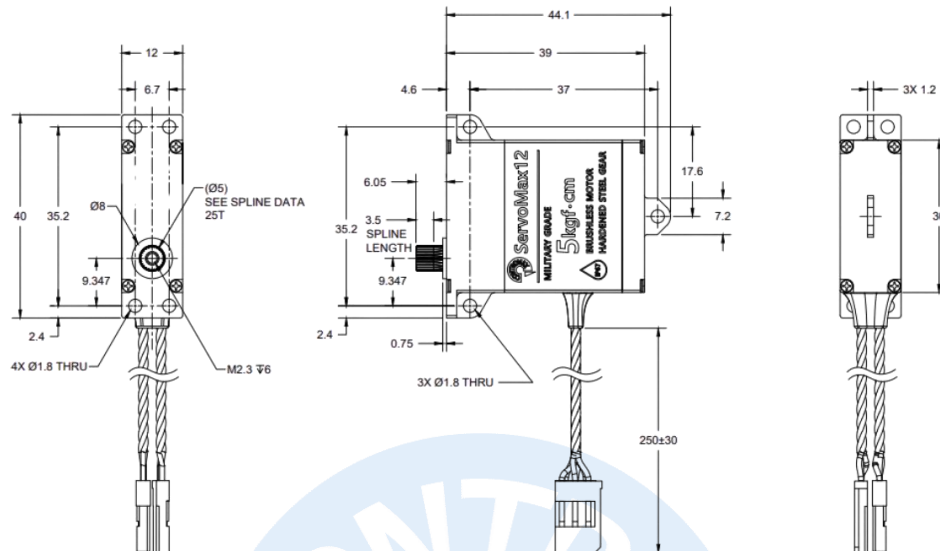
PWM



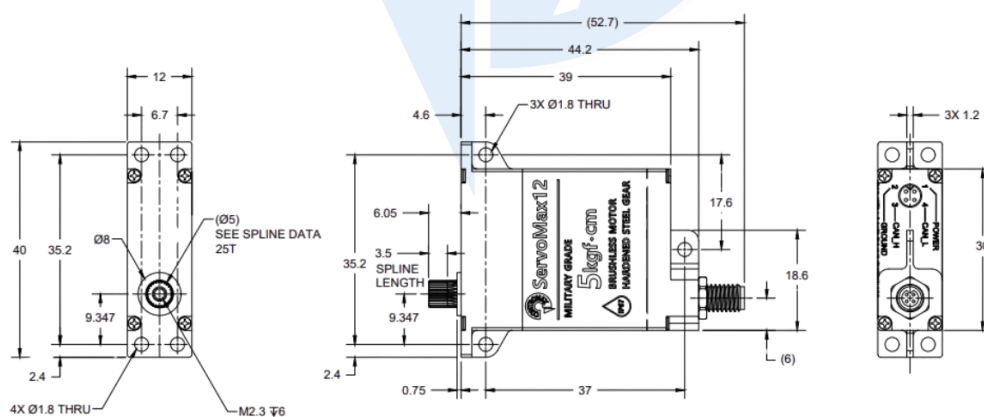
Pin	Signal	Remarks
1	POWER	4.8~8.4VDC
2	GROUND	-
3	PWM INPUT	TTL, 0.9~2.1ms/ 50~333Hz
4	GROUND	-

Dimension

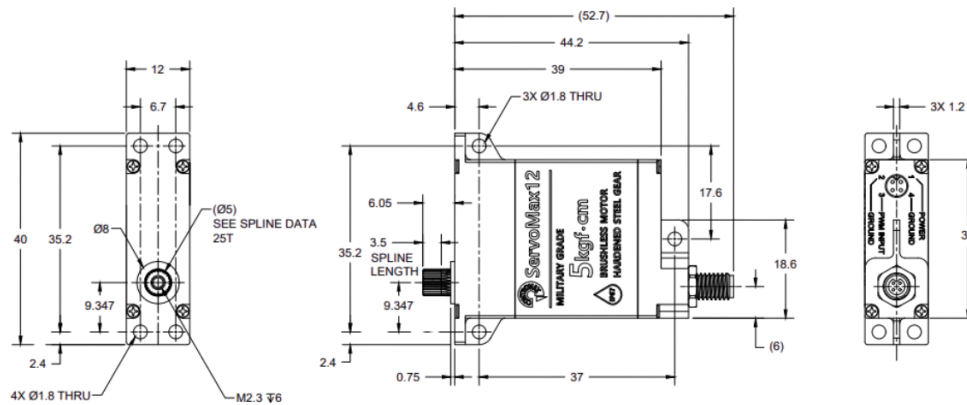
HYBRID



CAN



PWM



CAN Interface

Parameter	Specification
Revision	CAN2.0A, CAN2.0B (Default)
Baudrate	1Mbps / 500kbps (Default) / 250kbps / 125kbps
Endianness	Big Endian
Termination resistors	Not available
Command/Response Protocol	Supports 1 command message, up to 2 response messages
User Configuration Parameter	Internal memory access available

PWM Interface

Parameter	Specification
Signal Voltage	TTL (High : 2.2 ~ 5.0V, Low : 0.0 ~ 0.8V)
Frame Period	3.0 ... 20.0ms (50 ~ 333Hz)
Valid Pulse Width	0.8 ... 2.2ms
Position (Min/Zero/Max)	0.9 / 1.5 / 2.1ms
Pulse Resolution	0.1us

***Note:** The hybrid model supports both CAN and PWM interfaces.

NTI Chart

