SS109HT High Torque Pan & Tilt Assembly Specifications



- Torque: 14 ft. pounds / 19 Nm (each axis)
- Rotation Speed: Up to 20° per second
- Scan Range: 360° both axis / 180° tilt axis with yoke
- Depth rated 6000 meters • Positional Accuracy: 0.1°
- Reversible synchronous motors
- Low backlash harmonic drives

ELECTRICAL SPECIFICATIONS:

Power -Input Voltage	20-24VDC	
Maximum Drive Current	1.2 A per axis	
Maximum Static Current	200mA - 650mA per axis (customer selectable)	
Maximum Output Torque	14 ft-lbs (19Nm) each axis	
Maximum Payload	50 lbs (23kg)	
Output Speed	Angular Speed: 0.5-20 degrees/sec	
	Speed: 0°- 20° per second	
Position Feedback	12-bit resolution (approximately 0.1)	
Communication	RS-485 or RS-232 or Analog	
Connector	Customer selectable – Season Brantner is standard, MCBH-8P	

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ENVIRONMENTAL SPECIFICATIONS:

Depth Rated	10,000 feet / 3050 meters (internal compensation)	
	18,000 feet / 6000 meters (external compensation)	
Operating Temperature	-4° to 122° F (-20° to 60° C)	
Housing Material	Hand Annotated 6061-t6 Aluminum housing (Standard)	
O-Ring Material	Buna	
Fastener Material	316 Stainless Steel	

MECHANICAL SPECIFICATIONS:

Height x Width x Depth	8.45" (207mm) x 6.64" (169mm) x 3.68' (84mm)	
Weight in Air	9.3 lbs / 4.2 kg	
Weight in Water	5.9 lbs / 2.7 kg	
Positional Accuracy/Backlash	36 arc minutes	
Scan Range	360° both axis / 180° tilt axis with yoke	
Gears	Precision strain wave gearing	
Pressure Compensator	Internal diaphragm	
Position Limits	(optional) +/- 175° Pan, +/- 90° Tilt	

CONTROLS:

Recommended Controls	SS201 Series Desktop / Flush Mount	
	SS202 Serial Control RS485 / RS232 / Custom RS422	
	Laptop/PC with SIDUS Control Panel GUI	
	Analog with Feedback	
Optional Controls	Optional integrated functions, Pelco-D	
	Keyboard, mouse, or joystick control digital feedback option	
Control Methods	Laptop/PC with SIDUS Control Panel GUI	
	Optional integrated functions, Pelco-D	
	Keyboard, mouse, or joystick control	
	Digital feedback option (requires 2 additional conductors)	
	DC Brake option for Analog configuration (requires additional conductors)	
ACCESSORIES:		
Bracket & Mount	907 Series: Standard base plates for mounting in any position.	
	CS Series: Custom specified mounting plates.	
Optional Controls	Optional integrated functions, Pelco-D	
	Keyboard, mouse, or joystick control digital feedback option	



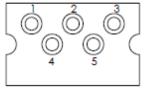
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CONNECTOR PIN OUTS:

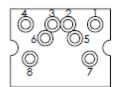
PIN	Function
1	Ground
2	+24 VDC
3	N/C
4	D+
5	D-

PIN	Function
1	Ground
2	Tilt CCW
3	Tilt CW
4	Pan CW
5	Pan CCW

PIN	Function
1	Ground
2	+24 VDC
3	Signal Ground
4	RX
5	TX



PIN	Function	PIN	Function
1	Ground	5	Pan CCW
2	Tilt CCW	6	Tilt Feedback
3	Tilt CW	7	Pan Feedback
4	Pan CW	8	Not Connected



FAWM-8P-BC

Connector Pinout:

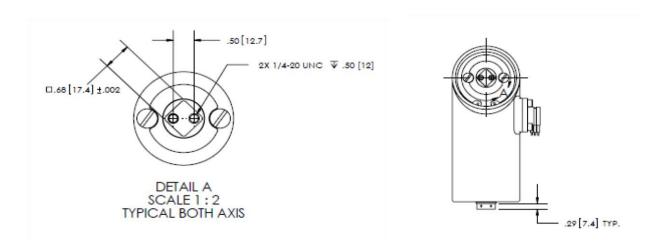
Pin 1: Ground	Pin 1: Ground	Pin 1: Ground
Pin 2: +24VDC	Pin 2: Tilt CCW	Pin 2: +24VDC
Pin 3: N.C	Pin 3: Tilt CW	Pin 3: Signal Ground
Pin 4: D+	Pin 4: Pan CW	Pin 4: RX
Pin 5: D-	Pin 5: Pan CCW	Pin 5: TX

Connector Pinout:

Pin 1: Ground	Pin 1: Pan CCW
Pin 2: Tilt CCW	Pin 2: Tilt Feedback
Pin 3: Tilt CW	Pin 3: Pan Feedback
Pin 4: Pan CW	Pin 4: Not connected

• 3.68[93.5] **-**6.64[168.6] Ø3.31[84.1] 6.25[158.6] □1.75 [44.4] · 8.15 207.1 □1.25[31.8] 5.41[137.5]

Height, Weight, and Depth Dimensions



DESIGN:

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