SS109HT High Performance 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	MCBJ-8P	

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	nsator 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	Option 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)

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ACCESSORIES:

907 Series: Standard base plates for mounting in any position CS Series: Custom specified mounting plates **Bracket & Mount**

Optional integrated functions, Pelco-D **Optional Controls**

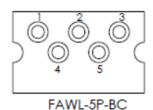
Keyboard, mouse, or joystick control digital feedback option

CONNECTOR PINOUTS:

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

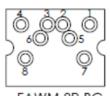
PIN	Function	
1	Ground	
2	+24 VDC	
3	Signal Ground	
4	RX	
5	TX	



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

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

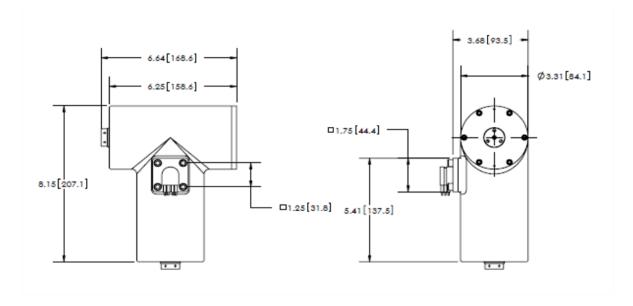


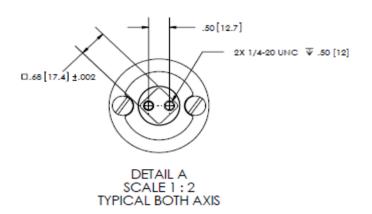
FAWM-8P-BC

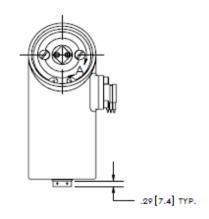
Connector Pinout:

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

HEIGHT, WEIGHT, AND DEPTH DIMENSIONS:









DESIGN:

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