Gyro-Stabilized Platform

SPS-P230

Description:

Watson Industries has many years of experience developing sensor packages for stabilized camera platforms. Now we have taken the next step and are offering a complete system.

Our gyro-stabilized mount is built around a rugged pan and tilt mechanism. This is a high resolution digital system uses the best wide bandwidth, low noise, solid-state gyros. Watson's proprietary rate closure, zero error algorithms take commands from a remote joystick controller and drive a digital servo controller on the mount. The whole system is user configurable to adapt to a wide range of payloads and requirements.

Watson Industries also provides custom systems for special requirements. Our system design is modular and configurable for economical and quick adaptation to a wide variety of hardware configurations. Of course Watson Industries' excellent product support and applications engineering goes along with every product.

Stabilized Platform – Side Mount

Joystick Controller

- High Stability
- High Reliability
- Low Cost
- Low Noise
- Two Year Limited Warranty
- Engineering Support

Applications:

Uses for this platform include Mobile CCTV, video and film camera stabilization, antenna stabilization, range finders, stabilized lighting, aerial photo survey and coastal surveillance. These applications are for air, sea, and ground use.

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SPS-P230 Specifications

Platform		
Range: Pan	±170° (Electronic)	±175° (Mechanical)
Range: Tilt	±90° (Electronic)	±95° (Mechanical)
Slew Rate: Bank, Elevation	±45°/sec	
Tilt Accuracy: Static	±1.5°	
Tilt Accuracy: Dynamic	±3.0°	
Noise:	0.1° rms	
Stability:	±1.5°	Over 20 minutes
Environmental		
Temperature: Operating	-20°C to +50°C	
Temperature: Storage	-50°C to +80°C	
Vibration: Operating	0.5 g rms	100 Hz to 1 KHz
Vibration: Survival	2 g rms	100 Hz to 1 KHz
Electrical		
Startup Time: Operational	10 seconds	
Startup Time: Full Performance	90 seconds	
Input Power:	18 to 30 VDC	
Input Current:	2A @ 28VDC	6A Peak
Physical		
Size: Including Mounting Flanges	6.7"W x 15.8"L x 9.2"H	17.0 x 40.1 x 23.4 (cm)
Weight:	28lb (12.7Kg)	Not including payload
Connection: RS-232	9 pin female "D" subminiature	On joystick controller
Connection: Power	MS3112E-8-4P (4 pin male)	On joystick controller
Connection: Interface	MS3102A-16S-1S (7 pin female)	On joystick controller
	MS3102E-20-7P (8 pin male)	On servo controller
Interface Cable: 5 meter	MS3106A-16S-1P 7 pin male end mates to joystick controller	MS3106A-20-7S 8 pin female end mates to servo system
Capacity:	45 Kg	
Base Mounting Holes:	Qty 8 (4 x M6 threaded; 4 x #12 M6 clearance)	4" dia. bolt circle
Payload Mounting Holes:	Qty 8 #12 (M6 clearance)	4" dia. bolt circle

- Specifications are subject to change without notice.
- This product may be subject to export restrictions. Export Classification ECCN EAR99.

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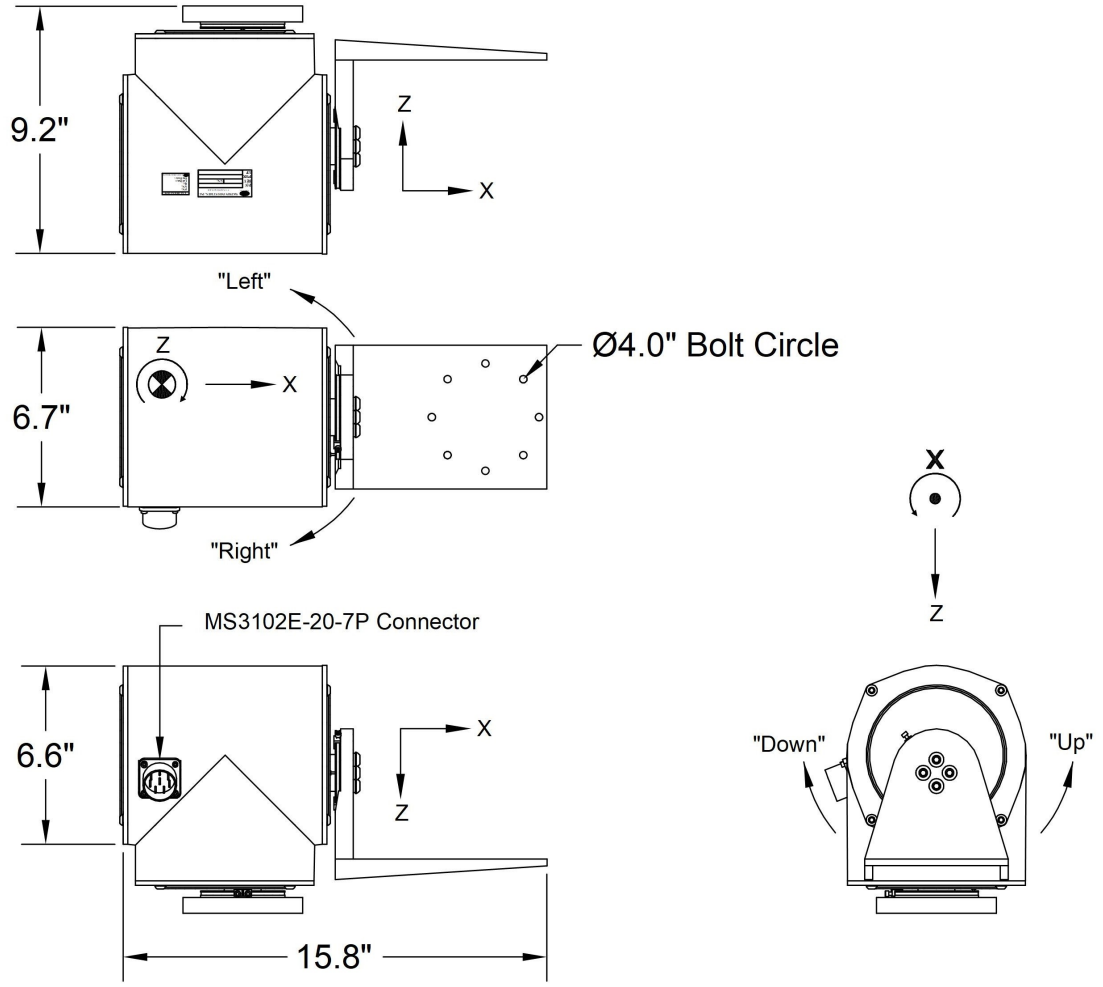
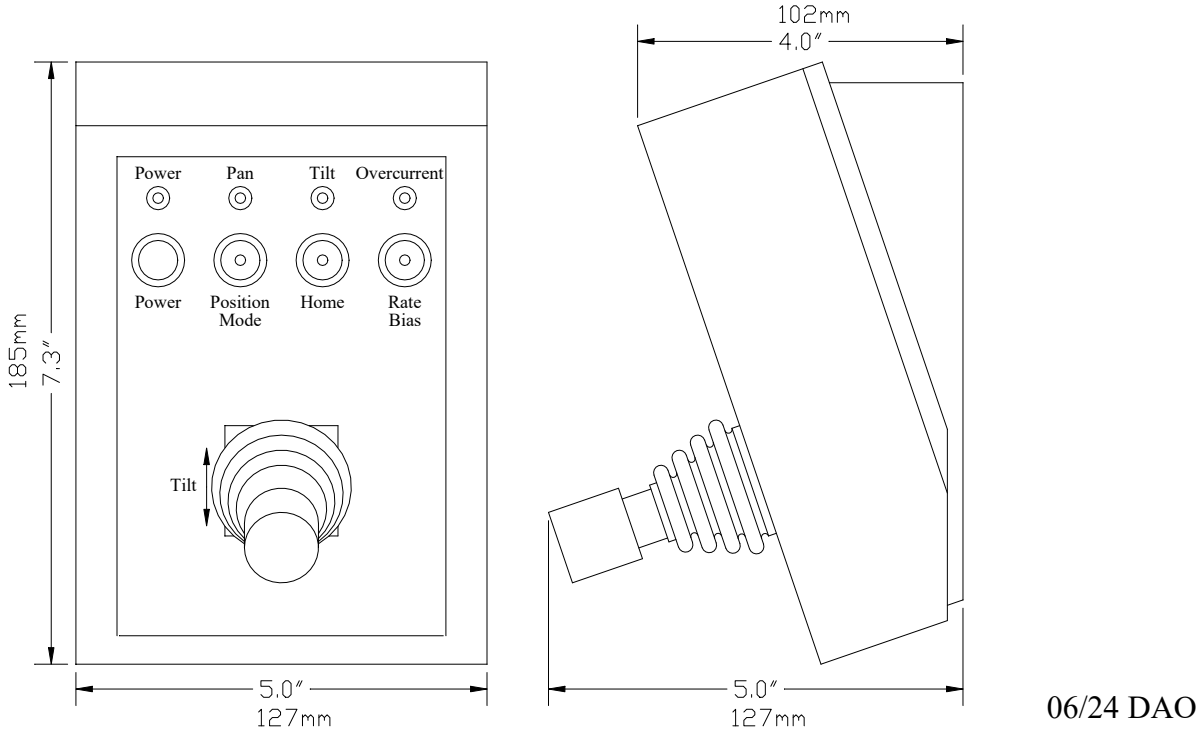
Dimensions:

Servo System





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