Gyro-Stabilized Platform

SPS-P232

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 over an RS-422 serial connection to drive a digital servo controller on the mount. The whole system is user configurable to adapt to a wide range of payloads and requirements.

Stabilized Platform – Side Mount

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. Watson Industries' excellent product support and applications engineering goes along with every product.

- 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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e-mail: support@watson-gyro.com Website: www.watson-gyro.com

SPS-P232 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:	MS3102E-20-7P	Mating connector included
	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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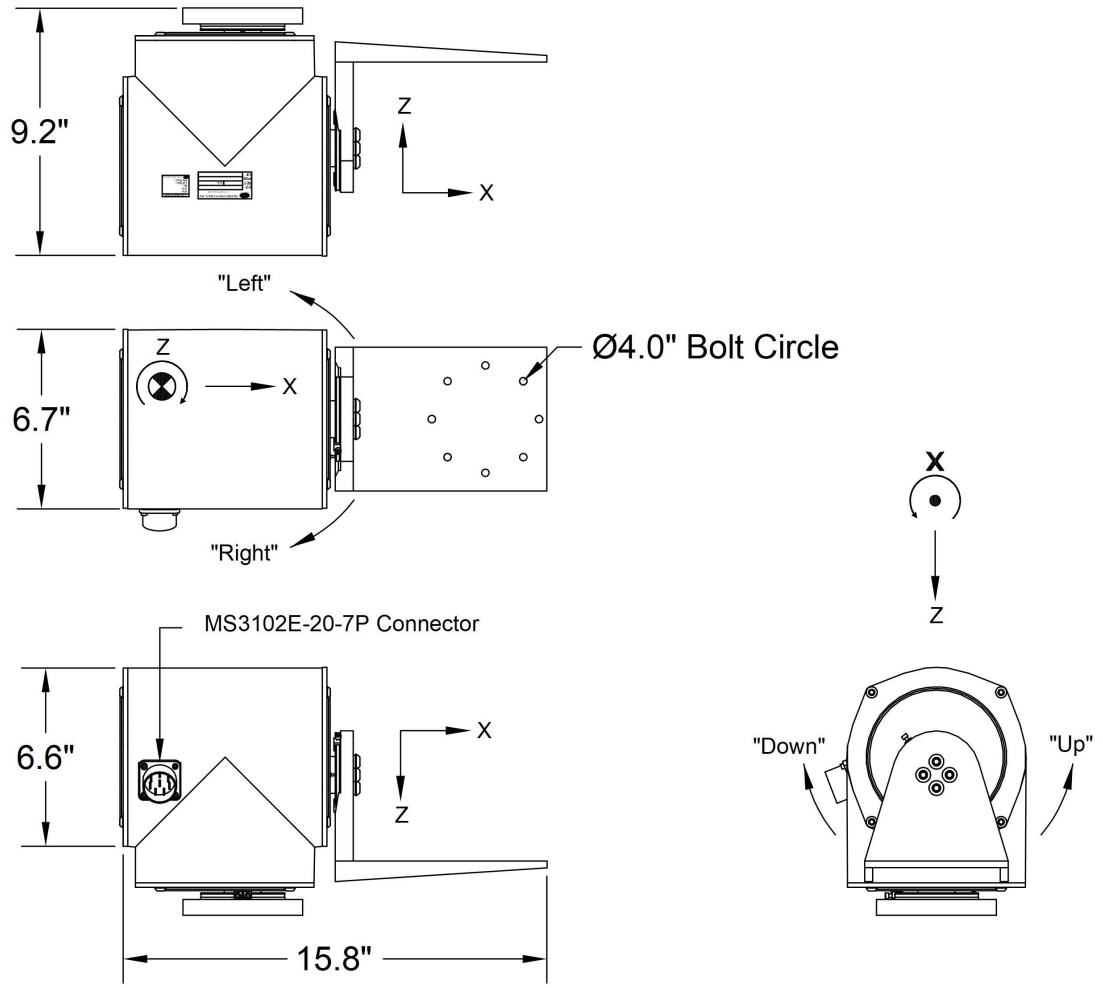
Dimensions:

Servo System



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