

Industrial Group

Arens Controls | PG Drives Technology Penny & Giles | Williams Controls



Tilt Position Sensor

in Lift & Access Application - Aerial Work Platforms

Lift and Access Applications - Aerial Work Platforms

Reliability and safety are critical considerations for an aerial work platform user. Stringent safety standards, precision control in dynamic scenarios, and the need to function reliably in extreme environments, demand best in class measurement equipment.

The VTS series of tilt sensors from Curtiss-Wright uses the latest advances in inertial measurement unit (IMU) technology to reliably measure tilt angle for improved safety.

With the IMU's combination of three gyroscopes and three accelerometers, plus advanced filtering from Curtiss-Wright, the VTS series enables designers to maximise their machines working range.

| Feature Function Benefit | |
|--|------------|
| | |
| Dual-redundantSafely measuresMeeting internationmeasurementpitch and rollstandards | nal safety |
| Vibration-tolerant signals Avoids nuisance trips Reducing down | ntime |
| Thermally compensated (<0.004°/K thermal error), CANbus outputsReliably reports position in extreme environmentsImproving accurate of operation | iracy n |



Product Solutions from Curtiss-Wright

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Reliability

- Latest IMU technology
- Precise measurement
- Fast-acting software algorithms
- Rapid filtering

Boosts machine performance and runtime by minimising nuisance trips

Safety

- MTTFd >385 years
- Dual sensor architecture
- Designed for compatibility with safetyrated systems e.g. EN13849

Plays a major role in improving operator safety



Value to OEM Customers

VTS Series Usage

Performance

- Vibration-tolerant for dynamic applications, reducing nuisance trips and enhancing productivity
- Thermally compensated, ensuring consistency and improving accuracy to maximise working range

Durability

- IP67/69K enclosure, ensuring operation in extreme environments and reducing total cost of ownership
- Solid-state 'fit and forget' technology, increasing time between services and enhancing product life cycle

Easy Integration

- 6-48Vdc operating range, compatible with 12 and 24Vdc systems for ease of integration
- Integrated, industry-standard interface, providing reliable, cost effective connection for ease of installation

Other Applications

Construction Equipment

- Improves vehicle stability monitoring, enhancing safety and reducing tip-over risk
- Improves implement monitoring, enhancing and aiding in the automation of functions such as return to dig

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Agricultural Equipment

- Improves vehicle stability monitoring, enhancing safety and reducing tip-over risk
- Improves implement monitoring, enhancing and aiding in the automation of functions such as cutting height adjustment

Material Handling Equipment

- Improves vehicle stability monitoring, enhancing safety and reducing tip-over risk
- Improves load monitoring, enhancing and aiding in the automation of functions such as load stabilisation and levelling











3 Quarter View

Front & Back View

Side View

Other CW Products for Aerial Work Platforms

Top View

