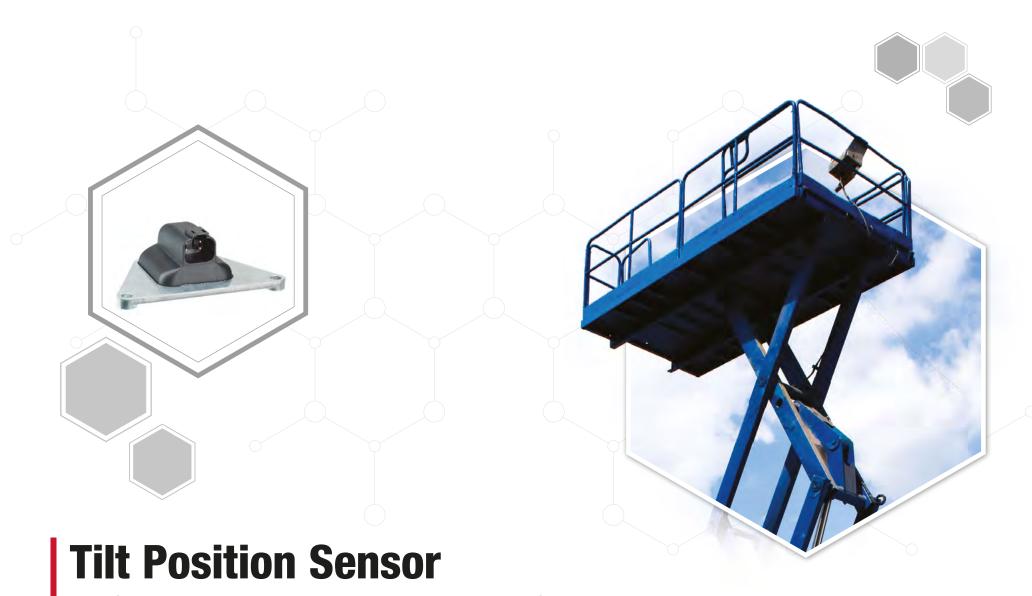


## **Industrial Division**

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



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-redundant measurement	Safely measures pitch and roll	Meeting international safety standards
Vibration-tolerant signals	Avoids nuisance trips	Reducing downtime
Thermally compensated (<0.004°/K thermal error), CANbus outputs	Reliably reports position in extreme environments	improving accuracy of operation





## 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**



### **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



## **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

# **VTS Series Usage**



# Other CW Products for Aerial Work Platforms

Front & Back View

Side View

**Top View** 

3 Quarter View



## **Contact Us**



Shanghai, China

T: +86.21.33310670

E: cwig.cn@curtisswright.com

Taipei, Taiwan

T: +886.2.2778.1900

E: cwig.tw@curtisswright.com

**Singapore** 

T: +65.6705.6714

E: cwig.sg@curtisswright.com

Pune, India

T: +91.20.67319100

E: cwig.in@curtisswright.com

**Americas** 

Brea. California

T:+1.714.982.1862

E: cwig.us@curtisswright.com

**Arlington Heights, Illinois** 

T: +1.847.844.4700

E: cwig.us@curtisswright.com

Portland, Oregon

T: +1.503.684.8600

E: cwig.us@curtisswright.com

São Carlos, Brazil

T: +55.16.2107.8745

E: cwig.br@curtisswright.com

**Europe** 

Christchurch, UK

T: +44.1202.034000

E: cwig.uk@curtisswright.com

Cwmfelinfach, UK

T: +44.1495.202000

E: cwig.uk@curtisswright.com



**Headquarters:** 15, Enterprise Way, Aviation Park West, Bournemouth Airport, Christchurch, BH23 6HH, UK • www.cw-industrial.com **Facilities:** Portland, Oregon, USA; Arlington Heights, Illinois, USA; Brea, California, USA; Christchurch, UK; Cwmfelinfach, UK; Pune, India; Suzhou, China; Shanghai, China; Taipei, Taiwan.

**Important Information:** Whilst Curtiss-Wright has designed this sensor to meet a range of applications it is the responsibility of the customer to ensure it meets their specific requirement.

Curtiss-Wright makes no warranty or representation in respect of product fitness or suitability for any particular design application, environment, or otherwise, except as may subsequently be agreed in contract for the sale and purchase of products. Customers should therefore satisfy themselves of the actual performance requirements and subsequently the product's suitability for any particular design application and the environment in which the product is to be used.

Continual research and development may require change to products and specification without prior notification. All trademarks acknowledged.

