

Sensing Components & Systems



- Inductive Proximity (Position) Sensors
- **SmartStem®** Wireless Tire Pressure Sensors
- Silicon-on-Sapphire Pressure Sensors
- Door Indication and Control Systems
- Landing Gear Indication and Control Systems
- Flap and Slat Skew Detection Systems
- Fuel Gauging Systems

The Sensing Advantage

With over 50 years of experience, Crane Aerospace & Electronics is the market leader in proximity and pressure sensing components and systems. Crane offers a range of sensing technologies that provide reliable, high-accuracy position, pressure and fluid quantity information for landing gear, doors, flight controls, engine controls, thrust reversers, tires, and fuel and water systems. In addition, Crane provides complete sensing and control systems for doors, as well as tire pressure indication and fuel quantity systems. All incorporate proven, highly reliable technology in rugged designs that assure critical system performance.

Take a look at the sensing components and systems described on the back of this flyer, then let us help you configure the ideal sensing solution for your application.

Count on Crane Aerospace & Electronics

The Sensing Components & Systems team is backed by the technical expertise and world-class design and manufacturing processes of Crane Aerospace & Electronics. Our technical strength, product reliability, innovative solutions, and commitment to lean manufacturing bring The Crane Advantage to our customers. All Crane Aerospace & Electronics products are ISO9001 and AS9100 certified to deliver quality you can count on. Whether you're looking for a standard sensor or a custom-designed sensing solution, Crane has the proven experience to deliver what you need.

You can also count on Crane Aerospace & Electronics for in-service support. We are committed to providing value through the life of the program with a product support organization that serves the needs of our customers worldwide.

Partner with Crane, your trusted market leader in demanding commercial aerospace, defense, and space markets. For more information or to request a quote, contact us at www.craneae.com.



Product Lines

Proximity Sensing Components and Systems: Crane inductive proximity sensing technology is used to reliably monitor the position of aircraft mechanical systems such as landing gear, doors, flight controls and thrust reversers.

Crane offers a full line of both active and passive proximity sensors that are proven to provide superior reliability in difficult aerospace applications. All of our new sensor designs feature all-metal construction and are hermetically sealed, which results in a durable, robust package for high reliability.

Our newest sensors combine extremely high accuracy with extended range performance to provide solutions for unique applications in engines and flight controls, including compatibility with FADEC interfaces.

For passive sensors, Crane offers a variety of flexible electronic interfaces which are scalable to support both small and large system configurations. In addition, Crane can provide a complete sensing system solution including application logic, communication and built-in test, based on your unique requirements.

SmartStem® Wireless Tire Pressure Sensors and Systems:

SmartStem technology replaces the wheel-mounted tire inflation valve with an inflation valve containing electronics. This sensor communicates tire pressure and temperature wirelessly to a handheld reader or by means of an on-board system to provide cockpit indication. **SmartStem** technology makes daily tire pressure checks quick, easy, accurate and automatically documented, without any gas loss.

High-Accuracy Pressure Sensors: Crane pressure sensors incorporate Silicon-on-Sapphire technology for the very highest in performance, reliability and accuracy. An integral temperature sensor located directly on the pressure diaphragm provides for optimum temperature compensation. Smaller in size than traditional mechanical resonance-type sensors, Crane sensors also require less power while providing better thermal transient response. Superior repeatability and stability give you exceptionally high accuracy within 0.01% of full scale using digital compensation.

Fuel Gauging Systems: From helicopters to business jets to UAVs, Crane's Fuel Gauging technology provides accurate, real-time measurement of fuel in one or multiple tanks. Readings and system performance can be depended upon under all flight conditions.

