

All Metal Proximity Sensors

Airbus introduced the Crane Aerospace & Electronics All-Metal Sensor PN 8-933-01 to the A320 aircraft production line in 2002 (from MSN 1794).



- Modern and resistant to operational environmental conditions, providing higher reliability (1,000,000 FH MTBF) than the old sensors.
- Common to all landing gear and cargo door sensing positions on A320, and fully interchangeable with the old PN 8-484-01 on those 38 positions. Provides commonality with A330 and A340 aircraft.
- Increases Dispatch Reliability.

Enhanced LGCIU

Airbus and Crane have developed the Enhanced Landing Gear Control and Interface Unit (LGCIU) PN 80-178-01-88012 which will soon replace the current PN 664700500A4A, B, C, and D.



- Offers reduced weight, higher reliability, and enhanced BITE functionality with LGCIU's inter-communication and improved consumption and power handling.
- Will be introduced on A320 aircraft final assembly line after successful in-service evaluation and will become the only standard in 2010. The LGCIU is fully interchangeable and intermixable with all previous LGCIU standards.
- When also embodied with Airbus MOD 39303 introducing an ARINC 429 link between the two LGCIU positions, the Crane LGCIU improved BITE functionality is enabled (functionality not available with current LGCIUs).

	Enhanced LGCIU	Airline Benefits
Weight	4Kg	4Kg per ship set lighter
Reliability	45,000 MTBUR	Highly increased reliability
Intermixable	Interchangeable with current LGCIU Pt. No. 664700500A4	2 x LGCIU per A/C 1 x Current + X Enhanced = intermixable
Improved Control Scheme	Sequenced control	More robust behavior in presence of failures. Reduced Operational Interrupts
Improved BITE	Better fault monitoring	Improved fault isolation Reduction in NFF
Maintenance Interface	Improved ABD0100 maintenance interface	Improved fault isolation
Power Interrupts	Increased power interrupt tolerance	Reduced operational interrupts

Prox Sensor Troubleshooting Tool

Airbus recommends Crane's Proximity Sensor Troubleshooting Tool PN 38-368-02 to functionally test all Crane sensors fitted on Airbus aircraft (All-Metal Sensors and Ferrite Sensors).



- The one and only efficient tool for functional tests and troubleshooting of Crane sensors either on-aircraft or in-shop.
- Referenced in Airbus AMM and TEM documentation.

SmartStem® Tire Pressure Sensing Technology

SmartStem®

technology provides a fast, accurate and reliable means for measuring tire pressure by utilizing passive, wireless sensors fitted within the tire inflation valve stem.



SmartStem is proven to reduce operator maintenance cost, and increase tire life, along with improving safety and braking efficiency by simplifying and automatically documenting the process of performing daily tire pressure checks.

- Current means for checking tire pressure are time consuming, require that tires be cold for accurate measurement, and the resulting data records can be complicated to manage.
- With SmartStem technology, tire pressure is checked wirelessly – without any gas loss and without having to remove the valve cap (which prevents a lost cap from becoming FOD). Record keeping is automated.
- In addition, SmartStem technology can provide temperature corrected pressure – and electronic data tracking – to help ensure that tires are properly inflated in all operational conditions.

SmartStem technology is in service on 777 and 787 aircraft with proven high reliability.



Favorable pricing and warranty offered to A320 operators for all of these improvement products.

Crane Aerospace & Electronics

Crane Aerospace & Electronics combines the experience of eight industry-leading brands to give manufacturers and airlines one integrated source for sensing, power, braking, electronics and more. Systems and products can be found in some of the toughest environments, from aircraft engines and landing gear to space satellites and medical implants.

Aerospace Group

The Aerospace Group designs, manufactures and supports critical aircraft systems and components, offering innovative solutions for sensing and control, landing systems, fluid management and cabin systems. Virtually all commercial and military aircraft fly with products manufactured by the Aerospace Group.

Electronics Group

The Electronics Group designs and manufactures high-density, high-reliability electronics for aerospace, space, military, medical, industrial and commercial applications. From Mars Rovers to implantable defibrillators, from land vehicles to fighter jets, Electronics Group products have proven their ability to operate in the most demanding environments.

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Crane Aerospace & Electronics Reliability and Maintenance Improvement Products

for A320 Family Operators



All Metal Proximity Sensors

Proximity Sensors Troubleshooting Tool

Enhanced LGCIU

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Tire Pressure Sensing Technology