Landing Gear Control Unit

High integrity position monitoring and control

Key features

- Small, lightweight and reliable
- Wheels-on-Wheels functionality
- Design Assurance Level A -hardware and software
- ARINC 2MCU construction
- Two mechanically separate, independent and redundant control lanes
- Controller can be configured to perform additional functions such as Nosewheel Steering and brake temperature monitoring
- Convection cooled - forced air cooling is not required

Overview

Our Landing Gear Control Unit (LGCU) controls the movement of the landing gear structure and the landing gear doors. It receives crew commands from the cockpit, monitors the position of the landing gear and controls the hydraulic extension and retraction system to move the gear up or down.

Proximity Sensors located on the moving parts of the landing gear and doors send signals to the Controller. The Controller interprets these signals and determines the position of the gear and commands the hydraulic motors and solenoids to create the required movement.

The Controller contains fully automatic Built-In-Test capability. This function monitors the health of its own circuits and also the state of the other landing gear components it is controlling.

Landing Gear Control Unit key information

Full Design, Supply and Support Service

We offer our customers a full design, development, qualification, supply and worldwide support service. This is often in accordance with the customer's own processes and systems.

Product Category

ATA32

Features

- Power supply: 28VDC
- Power consumption: 20W
- Software: DO-178 Level A
- Hardware: DO-254 Level A

Production Lead Time

Products are normally produced within 6 months from receipt of orders

Existing Aircraft

Ultra's controllers are fitted to the following civil aircraft:

- Airbus A318, A319, A320, A321, A330 and A340
- Gulfstream G500/G600/G650/G700 business Jet
- Mitsubishi Regional Jet (MRJ)

Military planes with Ultra landing gear control include:

- Embraer C390
- Eurofighter Typhoon (landing control circuit fitted to the Landing Gear ad Braking Controller)

G650 Landing Gear Control Unit

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