

CSA



CONTROL STICK ASSEMBLY

Kearfott's Control Stick Assembly (CSA) is a flight-critical component that enables pilots to accurately control modern, fly-by-wire aircraft. This passive side stick delivers the performance pilots demand for the most challenging mission profiles.

Benefits

- Low cost
- Lightweight
- Highly reliable
- Proven Kearfott position sensors
- Adaptable design for any interface

Built on Kearfott's extensive expertise in designing and manufacturing advanced position sensors and controls for aerospace and defense applications, the CSA delivers unmatched performance and reliability.



Trusted

Aircraft OEMs trust Kearfott for passive flight sticks for flexible integration, significantly lower cost, and an exceptional pilot experience.

Could your side stick use an update?



Next-Gen Military and Civil Aircraft

A PASSIVE SOLUTION AT LESS THAN HALF THE COST OF ACTIVE SIDE STICKS

Passive Side Stick
For Fly-By-Wire Aircraft



Kearfott

CONTROL STICK ASSEMBLY

Precision and Performance

Each Kearfott CSA offers integrated damping, centering feel force, and position feedback, enabling pilots to execute precise pitch-and-roll commands intuitively.

Optimized Position Feedback

The CSA features 6 channels (3 per axis) of high-performance Kearfott Variable Differential Transformer (VDT) position sensors. Rotary or Linear sensors (RVDTs and LVDTs) are selected based on system requirements. Sensors are integrated with channel-to-channel separation to provide the highest level of redundancy. Additionally, alternate position feedback options and adjustable channel counts are available to meet specific system requirements.

Pilot-Preferred Centering Feel Force

Kearfott engineers collaborate closely with pilots to optimize the variable force profile for each application. The cam-based centering mechanism, with adjustable gradients depending on deflection direction, offers limitless profiles. It ensures a low-backlash solution, independent centering for each axis, and a flexible design that accommodates diverse human factors.



Ultimate Flexibility

Kearfott gives you the flexibility to integrate your own grip or choose a complete solution with a custom grip design tailored to your needs. The Kearfott CSA is a cost-effective, lightweight, and highly-reliable, passive solution for both military and commercial fly-by-wire aircraft.

SCAN TO DOWNLOAD



ON COURSE. ON TARGET. ON POINT.

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