

VISHAY INTERTECHNOLOGY, INC

Vishay sfernice Positioning Technology for more Than 20 years, the Preferred choice of airbus and its Partners

MOTION TRANSDUCERS

Aeronautic Applications



FLTECH

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Vishay Sfernice Positioning Technology—For More Than

Technology and Performance

Vishay Sfernice potentiometers are built with a conductive plastic paste laid upon a polymer film track. This flexible resistive element is then mounted inside a cylindrical housing and joined to a high-quality wiper assembly constructed from precious metal alloy.

Features and Benefits

- Very accurate linearity: ±0.1 % or better
- Long operational life: from 20 to 50 million cycles
- Robust operating temperature range: -55 °C to +125 °C
- · Essentially infinite resolution and excellent repeatability

Available Custom Features

- · Redundant functions with up to 6 resistive elements
- · Specific mechanical requirements: spring return system, locking position, gears on shaft
- · Output by flying leads or/and connectors
- Integrated switches

More than 30 Vishay Sfernice precision potentiometers are used in the Airbus A320 aircraft. In the Airbus A380, the number is closer to 40.

Major Airbus Applications

• TCU: Throttle Command Unit

The fuel command lever instructing on-board computers to increase or decrease the power delivered to the aircraft's engines

• SSTDU: Side Stick Transmitter Damper Unit

The cockpit steering mechanism, implemented as joysticks controlled by the pilot and copilot

• SBCTU: Speed Brake Control Transmitter Unit

A flap used to deploy an air brake that assists the normal braking system to decelerate the plane on landing

• BPTU: Brake Pedal Transmitter Unit

When the brake pedal is actuated, a Vishay Sfernice potentiometer measures and reports its position

• NWSCU: Nose Wheel Steering Control Unit

The front wheel positioning instruction given by the pilot or co-pilot (2 levers per plane) during taxiing or parking operations

• Temperature Selector

Implemented with at least one Vishay Sfernice potentiometer per Airbus, provides temperature control for cockpit, cabin, and cargo areas

Cabin Pressure

LFES (Landing Field Elevation Selector) actuated during take-off and landing operations

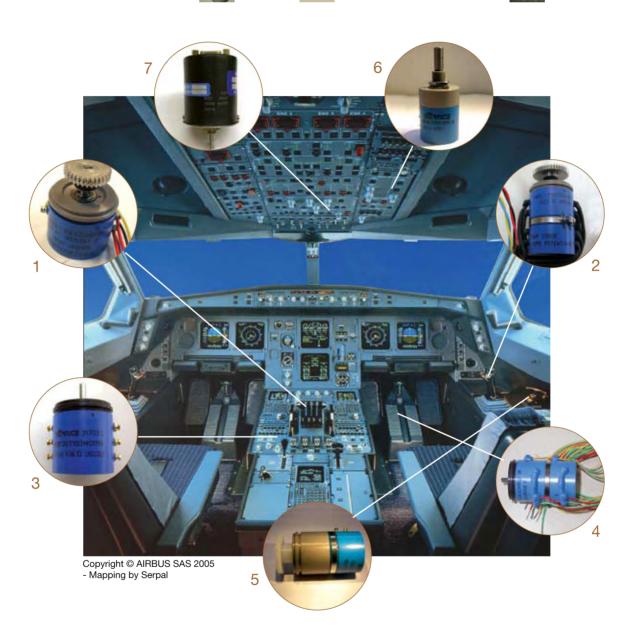
Vishay Sfernice potentiometers are used in many civil and military aerospace programs.

Additional Applications

- Flight recorders
- Servo command positioning
- Measuring fluid levels, as in oil tanks
- Tail control surfaces
- Helicopter flight controls and winch operator automatic hover trim functions
- Servo missile fin actuation systems
- Servo torpedo rudder positioning

20 Years, The Preferred Choice of Airbus and its Partners





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- 2. SSTDU: Side Stick Transmitter Damper Unit
- 3. SBCTU: Speed Brake Control Transmitter Unit
- 4. BPTU: Brake Pedal Transmitter Unit
- 5. NWSCU: Nose Wheel Steering Control Unit
- 6. Temperature Selector
- 7. Cabin Pressure

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