

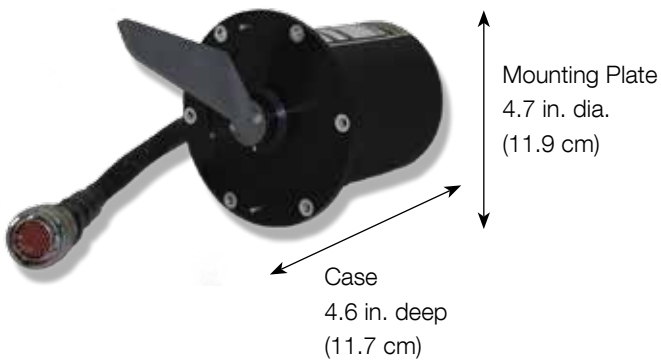


# Stall Warning Angle of Attack Transducers (SWAAT) and Stall Protection Angle of Attack Transducers (SPAAT) Sensors

UTC Aerospace Systems has over 50 years of experience in aerospace engineering and innovation.

UTC Aerospace Systems' advanced stall warning and angle of attack (AOA) technology has demonstrated success around the world on major regional and business aircraft. This same field-proven technology and relentless customer focus is applied to our stall protection systems.

Model 0863D1



## Low Risk, High Reliability

Through its advanced, robust design, our stall warning / AOA system provides optimal performance during all phases of flight. Proprietary heater technology enhances vane de-icing and helps evaporate moisture in the unit. These self-regulating vane and case heaters have an established high reliability to ensure optimum aircraft performance when in icing conditions.

# Stall Warning Angle of Attack Transducers (SWAAT) and Stall Protection Angle of Attack Transducers (SPAAT) Sensors

## General Specifications

### Dimensions

Mounting Plate	4.7 in. diameter max. (11.9 cm)
Case	3.6 in. diameter max. (9.1 cm) 4.6 in. depth max. (11.7 cm)

**Weight** 2.6 lbs. max. (1.2 kg)

**Environmental** Meets or exceeds requirements of RTCA / DO-160

**Power** Computer, Vane and Case Heaters — 28 VDC

## Certifications

- Complies with Part 23 and Part 25 aircraft requirements
- FAA authorized TSO-C54

## Features & Benefits

- Single or dual channel architecture
- Stall warning output—stick shaker and/or aural warning
- Stall protection output—stick pusher command
- Normalized AOA output—low speed awareness
- Approach indexer output—approach and landing aid
- Pilot-activated test (PAT)—pre-flight test
- ARINC 429 communication
- Combines AOA and stall warning / protection computer functions
- Aerodynamic vane alignment and resolver-based sensing provide reliable and accurate performance
- Self-regulating vane and case heaters with MTBF of greater than 1,000,000 hours (established via field data)
- Strapping function to correct for potential installation alignment errors
- Improves aircraft performance and reliability
- Extensive certification experience on major avionics platforms
- Reduces Line Replacement Unit (LRU) count
- Easy installation and maintenance

This document does not contain any export controlled technical data.

### For additional information:

UTC Aerospace Systems  
Sensors & Integrated Systems  
14300 Judicial Road  
Burnsville, MN 55306  
U.S.A.  
Tel: +1 952 892 4000  
sis@utas.utc.com

[utcaerospacesystems.com](http://utcaerospacesystems.com)

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