

THRUST CONTROL ASSEMBLY

Description

Kavlico's thrust control assembly (TCA) is designed for use in single engine jet aircraft. The thrust control allows pilots to set the aircraft's multiple power levels. When the pilot moves the thrust control lever, the internal triple RVDT provides redundant signals to the FADEC control to increase or decrease the power level. Detents are provided for take-off, idle, and maximum continuous cruise. This TCA is also equipped with a friction adjustment mini lever. Kavlico's thrust control unit meets the small envelope, minimum weight, and high reliability demanded by today's highly competitive aerospace industry. The thrust control design contains many features common to Kavlico's overall line of pilot control products.

A momentary Push-to-Talk switch is located in the grip, making it easy-to-activate by the pilot. The thrust control design makes extensive use of lightweight materials for both the body and the handle. The excitation and output for the RVDTs and switch are made via two MIL-DTL-D38999 series III connectors. A full travel seal insures that foreign debris is kept out of the thrust control mechanism.

The lever incorporates a gear drive, that is linked to an anti-backlash gears on the triple RVDTs. This scheme provides a high accuracy signal proportional to the lever travel with triple redundancy.



Features

- Triple or double redundant RVDT design (number of channels specified by customer)
- Adjustable, Constant Friction/ Drag on lever
- Design Meets FAR Part 25 and RTCA-160
- Simple 4-screw mount permits rapid line replacement with minimal tools

SPECIFICATIONS

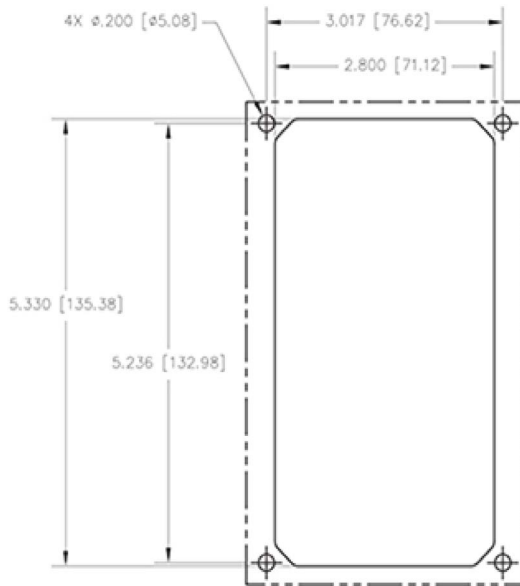
Positions	Take-off, Maximum Continuous Cruise, Idle
Pilot Adjustable Friction	From low to locked
Mechanical Travel	73 degrees (approx. 6 inches)
Grip	White (or customer color specific)
Electrical Receptacle	MIL-DTL-D38999 Connectors, Series III
Color Scheme	Fed-Std 595, color 36231 (lusterless gray)
Weight	1.81bs. (0.8kg.) Max.



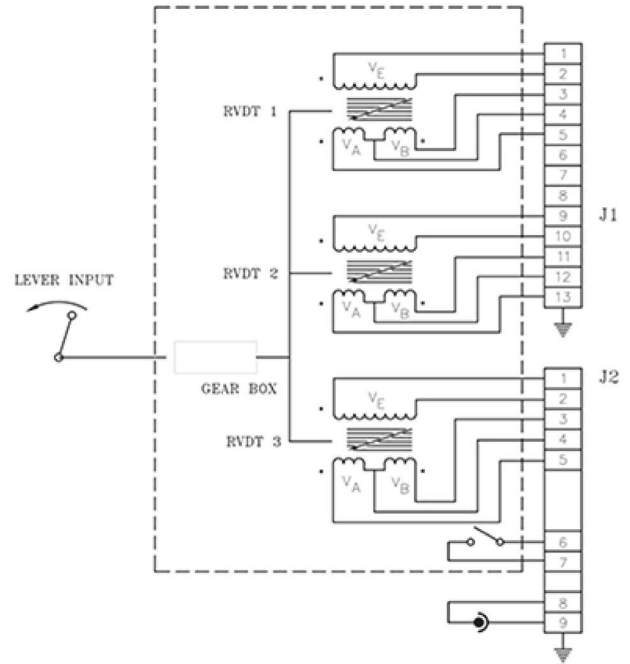
DIMENSIONS

Dimensions in mm [Inch]

Cut Out Dimensions



Schematic



Revised 2/16/18

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