

## Dual Motor Actuator (DMA)

ITT Aerospace Controls' Dual Motor Actuator is ideal for use in Environmental Control Systems (ECS) where the actuator's redundant system is necessary in such Safety Critical applications.

**The Dual Motor Actuator** combines Hall Effect Switches, Potentiometers, and Brushless DC Motors to achieve a redundant system for critical applications such as Environmental Control Systems. The Potentiometers provide continuous feedback for precision position control throughout the actuator's travel, while the Hall Effect Switches and Brushless DC Motors eliminate traditional wear points within the actuator. Together, the Potentiometers, Resolvers, and Hall Effects Switches work in conjunction to provide a safer, more versatile system.



### Features

- Redundant Dual Motor System
- Brushless DC Motors with Resolver
- Potentiometer Rotary Position Feedback (Conductive Plastic Element)
- Hall Effect Switches Sense End of Travel
- 75 in-lb Rated Load
- Environmentally Sealed
- 35,000 Hours of Life

**Safety** is achieved with the use of a differential gear set and separate sensing and drive circuits for mechanical and electrical redundancy.

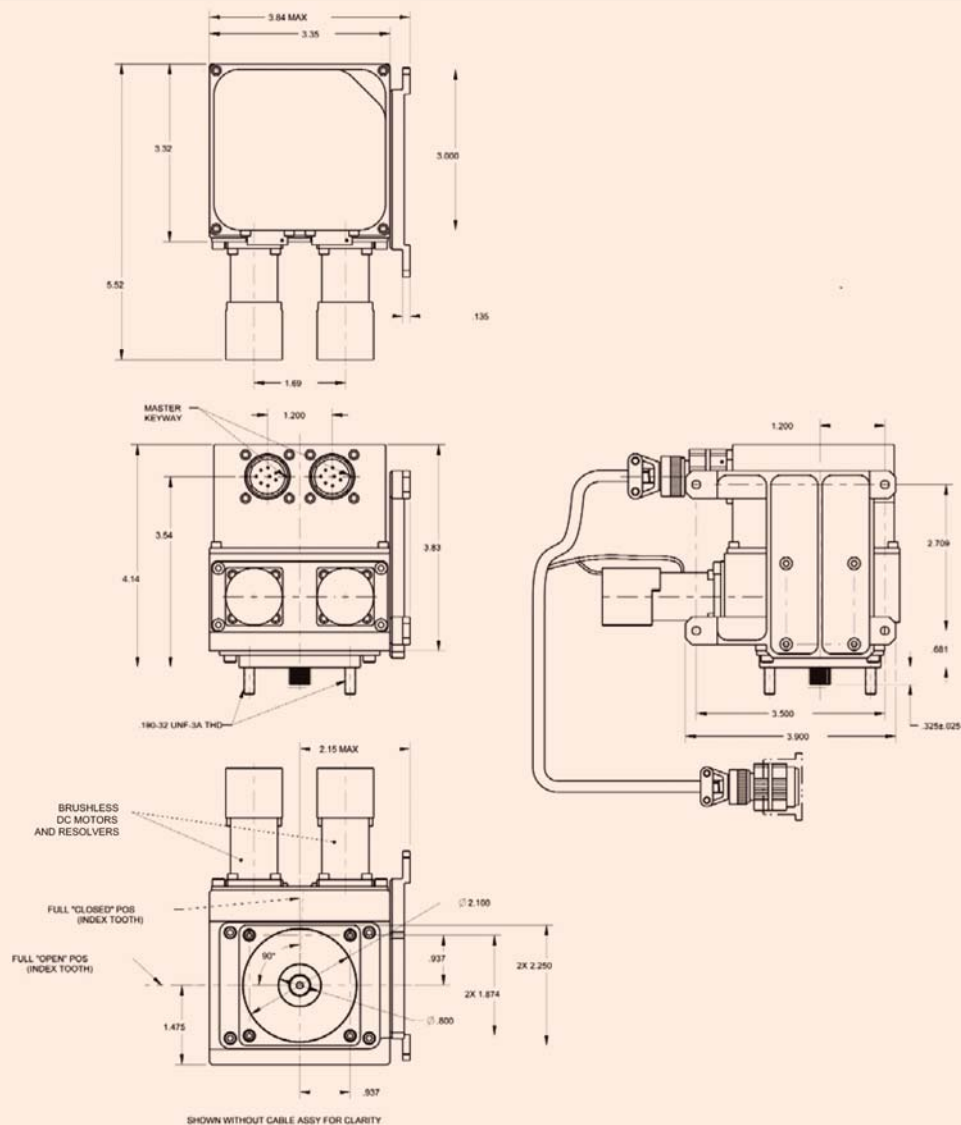
**High Reliability** is attained by incorporating components such as non-contact Hall Effect Switches, a Potentiometer and Long Life conductive plastic elements, and Brushless DC Motors that reduce susceptibility to internal wear.

# Dual Motor Actuator (DMA)

## Typical Specifications

Type:	Brushless DC Motor Operated
Voltage:	Nominal 28 VDC
Current:	750 mA Typical - Running
Torque Load:	Rated 75 lb-in.
Stall Torque:	> 100 in-lb.
Operating Time:	6.1 ± 2 seconds
Full Stroke Travel:	90°
Electrical Connector:	As Required
Weight:	4.2 lb. maximum

## Basic Dimensions



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