

**FSA100-0000-00**

# ROTARY SERVO ACTUATOR



## APPLICATIONS

FSA100-0000-00 rotary servo actuators are flight-proven with 50,000+ flight hours. These actuators are currently used as air intake actuators on unmanned platforms.

FSA100 series actuators produce 1.1Nm nominal torque at 180°/s nominal speed.



Unmanned Platforms - Utility actuation  
Urban Air Mobility Vehicles - Utility actuation

## STANDARDS

**MIL-STD-461E**  
**MIL-STD-810G**

## KEY FEATURES

- > Auxiliary control servo actuator
- > Flight-proven, 50,000+ flight hours
- > In-flight health monitoring
- > High power-to-weight ratio

## Actuator Specifications

Size	28 x 70 x 78.1mm
Operating Voltage	28V
Standby Current	50mA
No Load Speed	210 °/s
Speed at Nominal Torque	120 °/s
Rated Torque	1 Nm
Stall Torque	3.7 Nm
Current at Nominal Torque	0.25 A
Stall Current	0.62 A
Output Resolution	0.022°
Hysteresis max	1°
Mechanical Backlash	<0.5°
Weight	252g
Stroke	180°

## Command And Status Interface

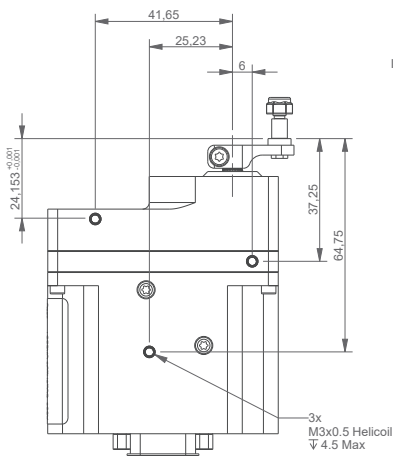
Digital Interface	RS 485 / 422
Analog Interface	±6V

## Electromagnetic Specification

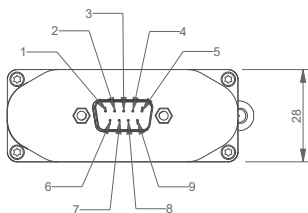
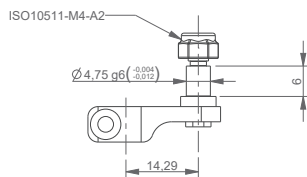
RE102	MIL-STD-461 E
RS103	MIL-STD-461 E
CE102	MIL-STD-461 E
CS101	MIL-STD-461 E
CS114	MIL-STD-461 E
CS115	MIL-STD-461 E
CS116	MIL-STD-461 E

## Environmental Specifications

Operating Temperature	-30/+50 °C
Storage Temperature	-40/+70 °C
Altitude	25,000 ft
Vibration	MIL-STD-810G
Mechanical Shock	MIL-STD-810G
Humidity	MIL-STD-810G



Electrical Interface



Pin	Sinyal	Connector
1	Command	772-E09-113R011
2	Command Return	
3	Status	
4	Command 2	
5	Shield	
6	Supply	
7	Ground	
8	Command 2 Return	
9	Status Return	