

# Opto Electronic Actuator

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## Key Features

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- Patented Optical Switching
- Patented Output Shaft Electrical Isolation
- Manual override feature, without back driving of motor and gear train
- 90° rotation
- FAR 25.981 and SFAR88 Compliant
- Endurance Life: 100,000 cycles
- EMI/EMC filtering
- Over 25,000 currently flying around the world



## Product Overview

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ITT Aerospace Controls' patented Opto Electronic Actuator (OEA) uses optical, non-contact, position sensing with solid state circuitry and incorporates an electrically isolated output shaft. The Optical switches and solid-state H-bridge motor drive replace the older electromechanical position sensing and motor drive (relay and micro-switches) used in other typical actuator designs. The Opto Electronic Actuator's isolated output shaft eliminates the possibility of electrical energy being passed through the output shaft and creating a safety hazard.



**ITT**

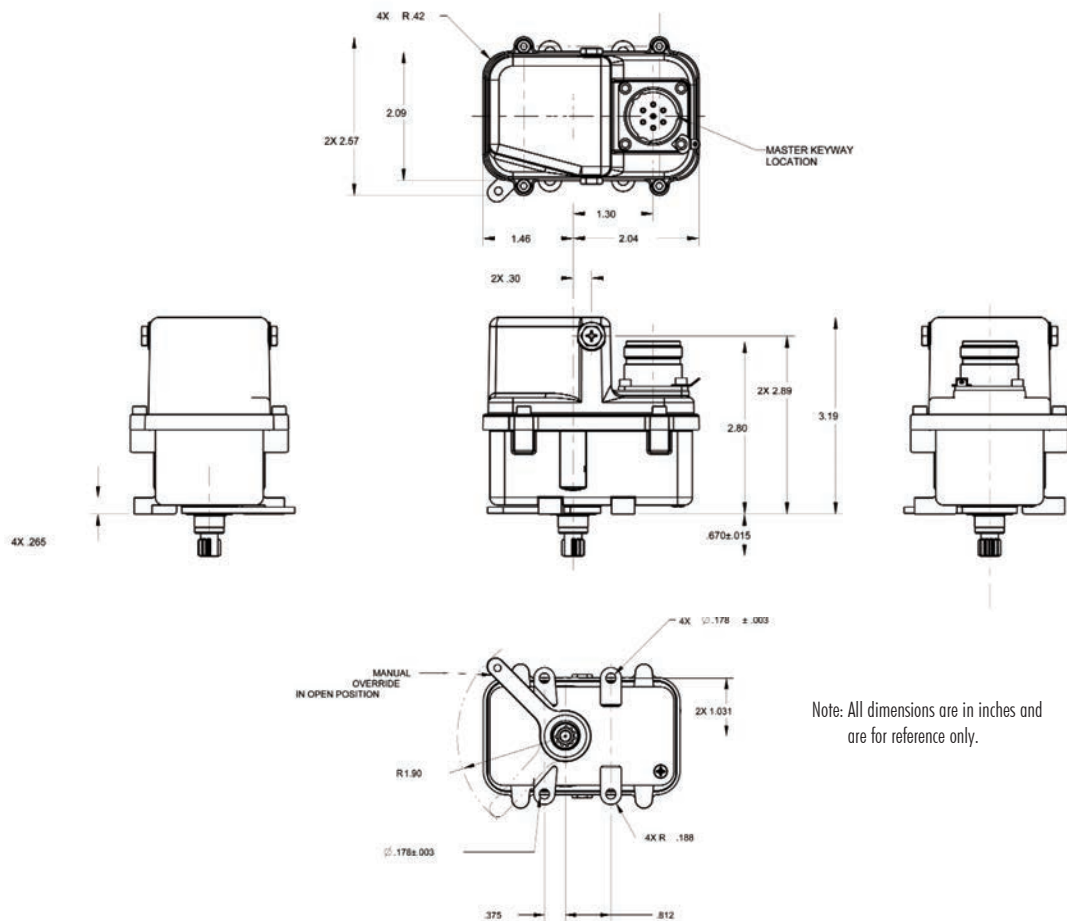
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# Specifications

Design Actuator Type	Motor operated - Permanent Magnet
Mounting Interface	Conventional Four Bolt
Electrical Connector	As required
Supply Voltage	28 VDC Nominal, 18 to 36 VDC Range
Current Draw	
Running	0.5 amp at 28 VDC and rated torque
Inrush	3.0 amp at 28 VDC and rated torque
Dielectric Strength	1500 VAC
Position Control and Indication	2x position limit and 2x position indication, all non-contact optical switches
Shaft Rotation	90 degrees
Speed	1.7 to 5 seconds over voltage range, and rated torque
Rated Torque	25 in-lbs. (2.8 Nm)
Stall Torque	75 in-lbs. (8.5 Nm)
Ambient Temperature	-65° F to +165° F (-55° C to +74° C)
Enclosure	14 psig (1 bar) environmentally sealed
Weight	1.33 lbs (.60 Kg) Maximum
Bonding Resistance	1.5 milliohms maximum between mounting feet and bonding lug surfaces
Duty Cycle	Intermittent. 8 seconds operating, 12 seconds off

# Product Dimensions



Note: All dimensions are in inches and are for reference only.

