

ACT1000 and ACT1000HF linear actuators

5004825, 5005023

Six inch all-electric linear actuator. Available in standard and high force configurations. Monitor and program using ACTWiz software.



Key features

- Gas turbine IGV control applications.
- On-board electronic controller.
- Programmable linear or non-linear stroke calibration for multiple applications.
- Configuration software provided.
- Dynamic response with minimal overshoot and minimal settling time.
- Wide operating temperature range.
- Certified for hazardous area environments.
- US patent no 6,392,322

Meggitt's ACT1000 and its family of all-electric linear-actuated products are replacements for older pneumatic and hydraulic technologies. Designed for high-temperature hazardous environments, the ACT1000 and all Meggitt actuators employ patented design features including an explosion-proof, on-board electronic controller ensuring safe operation in the most demanding conditions. The ACT1000 is not sensitive to mounting orientation, and can be aligned in any position. This creates a flexible and cost-effective solution in a variety of applications such as guide vanes and bleed valves on turbine engines, and steam valves in the process industry. Available in standard and high force configurations.

Specifications

Function	All-electric modulating linear actuator	
Application	Gas turbine IGV control	
Physical size	5.4 inches x 6.1 inches 16.7 inches	
Weight	40 lbs	
Ambient temperature	-40°F to 200°F	
Control/feedback interfaces	4 to 20 mA	
Logic I/O Interfaces	24 VDC	
Communication	RS-485 (Modbus protocol), HART	
Electrical		
Supply voltage	120 VDC nominal, 90 to 150 VDC range	
Supply current	1 A typical	8 A max (ACT1000) 15 A max (ACT1000HF)
Performance		
Max. operating speed	4 inches per second (ACT1000) 9 inches per second (ACT1000HF)	
Max. force	550 lbf continuous (ACT1000) 500 lbf continuous (ACT1000HF)	
Peak force	1067 lbf (ACT1000) 1267 lbf (ACT1000HF)	
Stroke	5.9 inches max	
Certifications	CSA, CE, ATEX, IECEx	

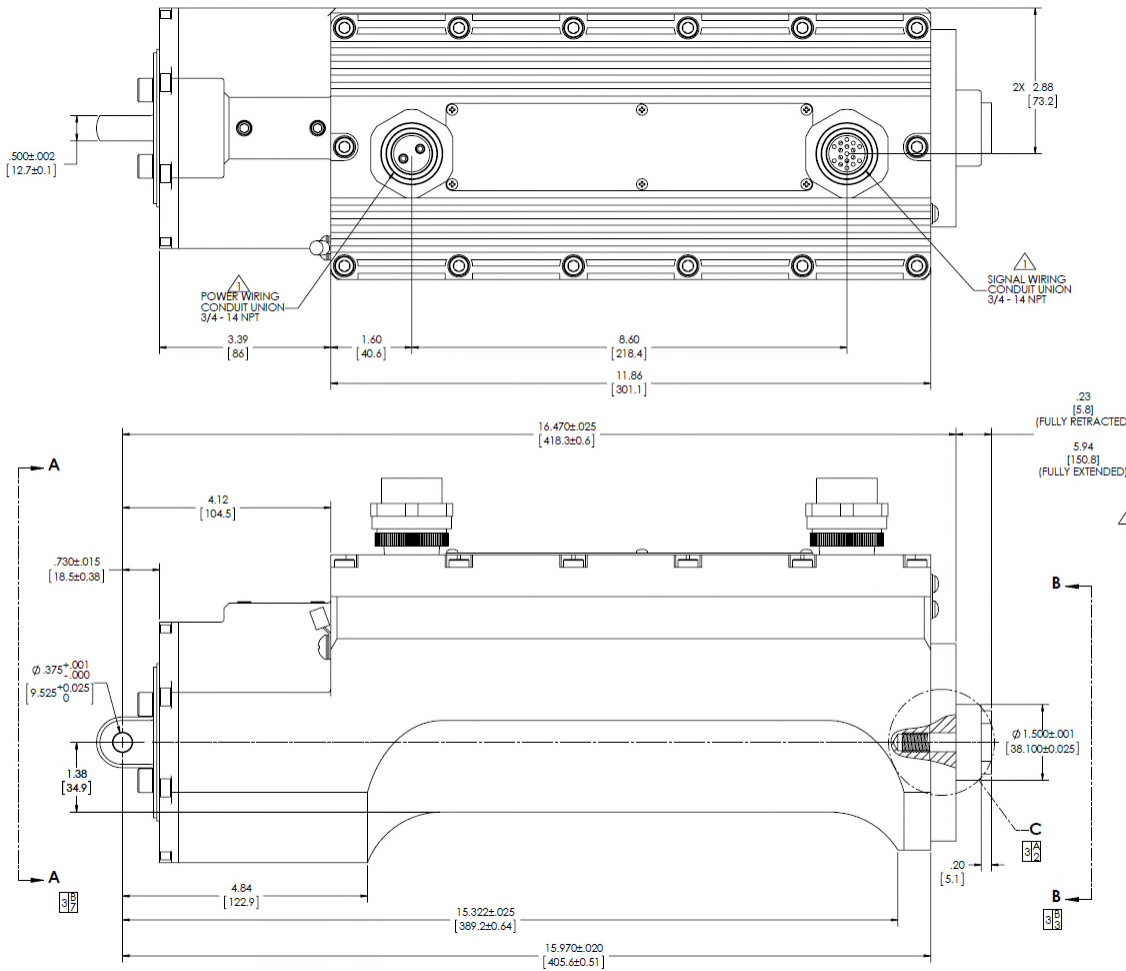
Meggitt Control Systems

Our product competencies and services:
Aerospace valves | Thermal management solutions | Electromechanical products | Ducting | Ground fuelling products | Industrial controls
Aftermarket services | Safety systems

MEGGITT
smart engineering for
extreme environments

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Contact

Meggitt Control Systems
12838 Saticoy Street
North Hollywood CA 91605
USA
Tel: +1 818 765 8160
Fax: +1 818 759 2194

Meggitt Control Systems
11661 Sorrento Valley Road
San Diego CA 92121
USA
Tel: +1 858 792 3261
Fax: +1 858 792 3200

www.meggitt.com

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