

SPECIFICATIONS A-LAR 300ALC-E01

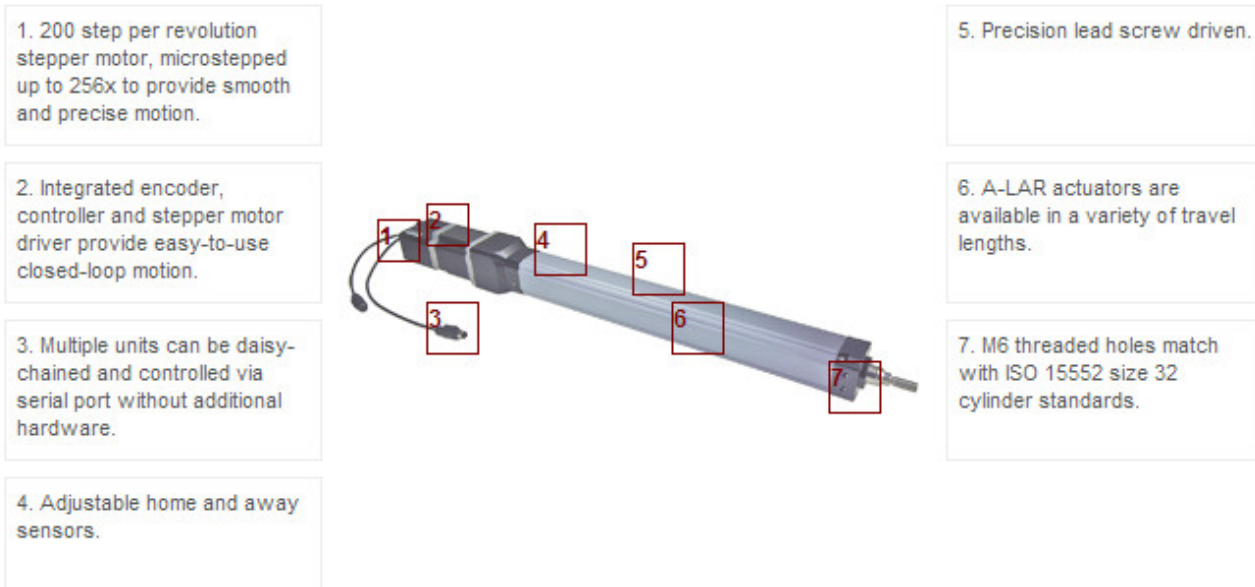
Motorized Linear Actuator, integrated encoder, 300 mm travel, fine resolution, low speed



Specification (click for definition)	Value	Alternate Unit
Microstep Size (Default Resolution)	0.1984375 μm	
Integrated Controller	Yes	
Travel Range	300 mm	11.811 "
Accuracy (unidirectional)	255 μm	0.010039 "
Repeatability	< 15 μm	< 0.000591 "
Backlash	< 255 μm	< 0.010039 "
Maximum Speed	40 mm/s	1.575 "/s
Minimum Speed	0.000121 mm/s	0.00000 "/s
Encoder Type	Rotary quadrature encoder	
Peak Thrust	540 N	121.1 lb
Power Supply	24-48 VDC	
Power Plug	Molex Mini-Fit Jr. 3 pin	
Motor Steps Per Rev	200	
Motor Type	Stepper (2 phase)	
Data Cable Connection	Minidin 6 M/F	
Mechanical Drive System	Precision lead screw	
Limit or Home Sensing	Magnetic home & away sensor	
Manual Control	Knob with centre detent	
Axes of Motion	1	
LED Indicators	Yes	
Mounting Interface	ISO 15552 (size 32 equivalent)	
RoHS Compliant	Yes	

FEATURES A-LAR 300ALC-E01

Closed-Loop Motorized Linear Actuators with Built-in Stepper Motors, Encoders, and Controllers : A-LAR-E Series Specifications



To control actuator position, simply transmit on the RS-232 port the unit number of the actuator you want to move, a simple move command and the position desired. After the move, the actuator will report its position through the RS-232 link. For a detailed list of available commands see the [A-LAR-E User's Manual](#).

A depressible knob with detents permits flexible manual control. Press and hold to switch between velocity mode and distance mode. In velocity mode, turn the knob to move the extension rod at various discrete speeds. Linear, quadratic, and cubic speed profiles are available. In distance mode, turn the knob to move the actuator for a fixed distance per knob detent. Speed profiles and distance per detent can be specified and are easily configurable. Press the knob during any operation to stop the actuator. Press the knob during deceleration to issue an emergency stop.