

LAR31 Series

Linear & Rotary Actuator

Linear (moving coil) & Rotary (brushless motor) motion Prevent common dust problem in the nozzle 100 million life cycle without maintenance

LAR31 Series

Stroke [mm] 30 +1/-0 mm Peak Force [N] 11 @1.5A

Rotary Encoder Resolution 40,960cout/rev (0.0088°)

RELIABILITY

- The vacuum passage built in the shaft through the rotary motor prevents dust build up in the unit
- > 10,000 units sold
- > 100 million cycles
- Linear (moving coil) & Rotary (brushless motor) motion

PRECISE FORCE & POSITION CONTROL

- Linear Resolution: 5µm standard (1µm and 0.1µm option)
- Force resolution: 0.04N
- Ability to "Soft-Land" delicate parts to avoid damage

PROGRAMMABILITY

 Programmable force/torque, position, velocity in all axis

Custom shaft & mounting location available



'Direct' vacuum passage runs through the shaft and rotary motor.

Applications



Pick, Orient & Press



IC Handling



Screw Driver



Gauging & Sorting
Parts



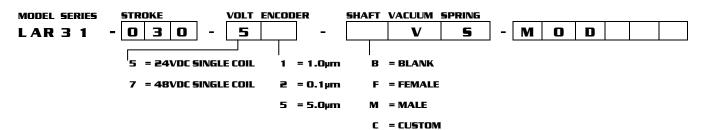
High Resolution Rotary



Chip Bonding

www.smac-mca.com

PART NUMBERING



SPECIFICATION

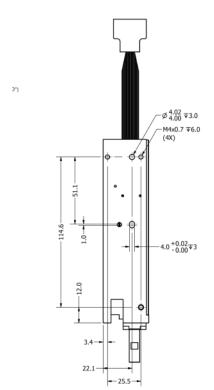
Dimension [mm]: 80 x 140 x 34.7 (LAR31-030-5) Linear stroke [mm]: 30 (+2/-0mm)

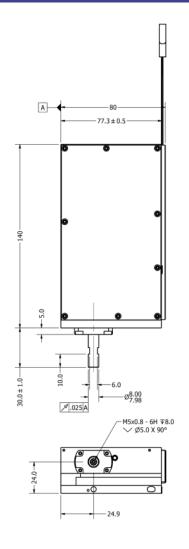
Encoder resolution [µm]: 5.0 standard (1.0 and 0.1 option) Encoder accuracy: ±2 encoder counts

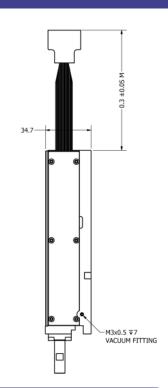
Peak force [N]: 11 @ 1.5A (24VDC) Force constant [N/A]: 7 (24VDC) Moving mass [kg]: 0.19 Total mass [kg]: 0.84 Operation voltage [VDC]: 24 Operating temperature[°C]: 5 to 40 Shaft run-out [μ m]: \leq 30 Vacuum port: M3

Maximum torque [Nm]: 0.06 (brushless motor standard)@3A Rotary encoder resolution: 40,960 count/rev (0.0088°)

DIMENSIONS (LAR31-030-5)







Regional Distributor





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Specifications subject to change without notice.