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Stepping Motor with Encoder	
14 mm sq. 28 mm sq. 35 mm sq. 42 mm sq.	
106 mm sq. 50 mm sq. 60 mm sq. 60 mm sq.	



Applications

Medical instrumentation, 3D printing, industrial machines.

When open-loop control is not enough

Stepping systems provide precise positioning with easy control. By adding an encoder to a stepping motor, the controller can monitor the actual position directly, closing the feedback loop and improving the safety and reliability.

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Stepping Motor with Encoder: Features

Safety: Position verification

Adding an encoder is an ideal and easy solution for safety-sensitive applications, requiring position verification and position maintenance, such as medical instrumentation.

Reliability: Stall Detection

Device reliability is improved with possible detection and reporting of stalls.

Close-loop control with stepper benefit

High-end close loop control can be achieved while keeping the advantages of stepping motors: stable stop without hunting, higher torque than DC servo motor at low speed over the same size, eliminating the need of gearboxes.

Accurate Homing

Encoder with index pulse option can be used to achieve precise homing.



Product Lineup

Stepping Motors

Basic step angle	Motor size	Holding torque [Nm min.] Model number
1.8°	35 mm sq.	0.195 to 0.23 2H35⊡
0.9°	42 mm sq. 🔊	0.23 2P42□
1.8°	42 mm sq. 🔊	0.26 to 0.8 2F42□ / 2H42□
1.8°	56 mm sq. 🧊	0.83 to 2 2H56□
1.8°	60 mm sq.	0.88 to 2.7 2H60□
1.8°	86 mm sq.	3.3 to 9 2H86□

Incremental Optical Encoders

Encoder type	CPR	Index option	Output type	Features
R type	200		single ended	Compact size Simple interface Cost effective
S type	400	•	single ended	Medium resolution Pulse index option Simple interface
M type	1000 1024	•	single ended	High resolution Pulse index option Simple interface
L type	400		line driver	Noise immunity Transmitting encoder signal over a long distance

Other types of motors and encoders on demand.



Customization Examples Image: Stepping motor with encoder Non-captive linear actuator with encoder Stepping motor with encoder Stepping motor with encoder For more information on «Stepping motor with Encoder», please contact us at +33 1 48 63 26 61 or email us at info@sanyodenki.com.

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