

KOLLMORGEN



The ideal drive platform to power your Kollmorgen stepper motor

P80630 Stepper Drive



Welcome to our newest stepper drive platform. The first drive in the new P8000 series, P80630-SDN, offers superior accuracy in a more compact design for stepper motors operating on DC power at up to 5.5 Arms per phase. It's ideal for labelers, indexing, CNC, packaging, pumps and other single- or multi-axis applications requiring low-speed, point-to-point motion control for fixed loads.

A New Standard of Performance

- **Positional accuracy and repeatability.** When using a PMX motor, the P80630-SDN reliably improves step-angle accuracy compared to previous drives such as the 6410 and P70530.
- **Superior power to size ratio.** Compared to the 6410 drive, the new P80630-SDN achieves 10% greater output current in a 60% smaller package.
- **Smooth motion across the speed range.** The P80630-SDN reduces setup time, optimizing smoothness, torque and precision without the need for electronic damping control switches.

Simple Drive Setup and Programming

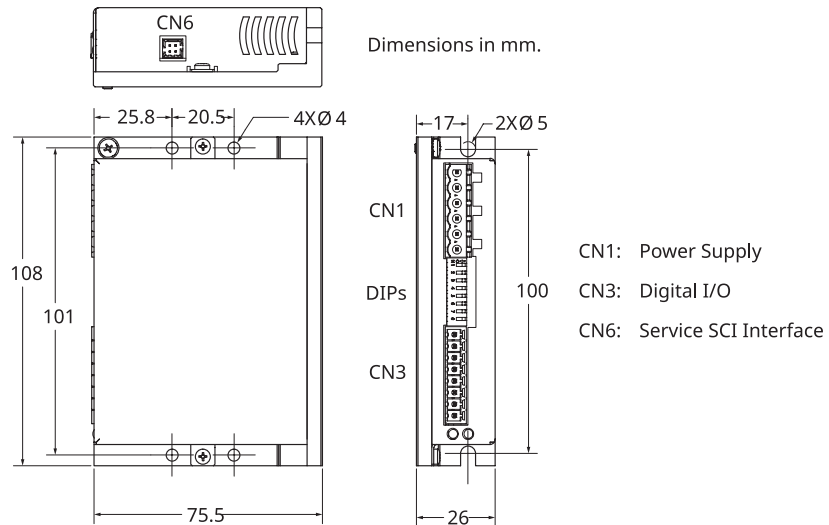
- Save time and simplify setup, with no programming required.
- Worldwide availability and support for motor/drive selection, sizing and setup.

Versatile Features

- Conventional single-ended or differential step and direction interface (user-provided pulse train required) or CW/CCW command inputs.
- Dedicated Enable Input and Fault Output for control of the drive's power stage and error monitoring.
- Dip-switch selectable settings for motor phase current, idle current reduction and step resolution (up to 1/128 microstep)—no programming required.
- Input voltage: 24 to 75 VDC. Phase current: up to 5.5 Arms (7.8 peak).
- CE, RoHS, REACH certified.

P80630

Stepper Drive



Electrical Data

Phase Current	Arms (A peak)	Up to 5.5 (7.8)
Power Supply	VDC	24 to 75
Chopper Frequency	kHz	40

Characteristics

Weight	200 g
Feedback Loop	Open loop
Protections	Overcurrent, over/under voltage, overheating, short circuit
Protection Class	IP20
Pollution Degree	2
Temperatures	Working: 5°C to 40°C Storage: -25°C to 55°C Max. chassis: 70°C
Humidity	5% to 85%, non-condensing

Interface Control Mode + Connection

Control Mode	Pulse input (step + direction or CW/CCW)
Operating Mode	Step resolution: full step to 1/128 step (dip switches)
Digital Inputs	3: step, direction, enable
Digital Outputs	1: fault output
Analog Inputs	N/A

Standard Motor Combination

2-phase stepper motors with phase current up to 5.5 Arms

For More Information or to Order

Visit kollmorgen.com/en-us/products/drives/stepper/p8000/