DATASHEET





OMD18 Integrated Single Axis

The OMD18 is an advanced stepper motor drive and motion controller in one small compact size. Through a simple RS485 communications interface you can control a stepper motor with exceptional control and accuracy. Selectable acceleration ramps at velocities up to 2M steps/sec. Selectable step size resolution from full up to 1/16 fractional step. Its small design is compatible to mount on a NEMA 17 stepper motor, and includes a hole in the center so the shaft of a linear actuator motor can pass through when mounted on the motor.

FEATURES

- Advanced motion control capabilities
- Commands are intuitive ASCII characters
- Simple communications through RS485 interface
- Communication speed = 115.2K Baud
- Velocity = 0 to 2M steps per second
- Step resolutions include full, 1/2, 1/4, 1/8, & 1/16
- Exceptional accuracy: +/- 0% position, 2% velocity (full-steps)
- Single supply voltage +10V to +30V
- 0 to 1.5 amp phase current for high torque motors (1.7A peak)
- Center pass-through hole for linear actuator stepper motors
- No heat-sink required for typical current
- Motor current set through the interface
- Matches the NEMA 17 dimension for direct motor mounting
- Use existing motors or select the optimum motor for the application for cost control and best performance
- Screw-terminal connector plugs for convenient wiring
- LED indicator for status
- Positive and negative limit inputs as well as Home input

"The Company in Motion"

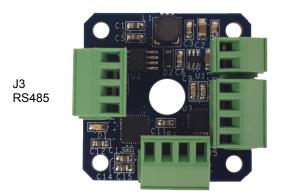
OMS Motion, Inc.

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www.OMSmotion.com

Connector Pin-out

OMD18



J4: Limits/I/O

J1 Pin 1: +8-35VDC

Pin 2: Ground

J2

Pin 1: Phase 1A

Pin 2: Phase 1B

Pin 3: Phase 2A

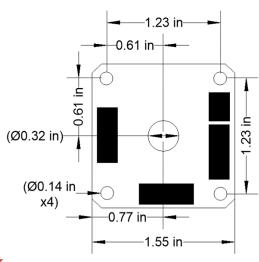
Pin 4: Phase 2B

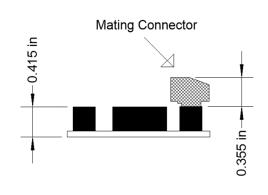


Typical Application



Dimensions







ORDERING INFORMATION	
Model	Description
OMD18	Step Drive & Controller, Size 17
CVR18	Cover for OMD18



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