Integrated Drive/Controller

SPECIFICATION

OMD18

The OMD18 is an integrated fractional stepper motor driver with motion controller in a small compact size. The OMD18 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. Motor phase current and step size resolution set through the RS485 communications interface. Travel limit sensor inputs as well as home input are supported. The connectors are screw terminal plugs for easy and secure wiring.



FEATURES

- Integrated design
- Commands are intuitive ASCII characters
- Simple RS485 communications interface (optional Modbus)
- Velocity = 0 to 2M steps per second
- Step resolutions include full, 1/2, 1/4, 1/8, & 1/16
- 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
- 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
- Exceptional value

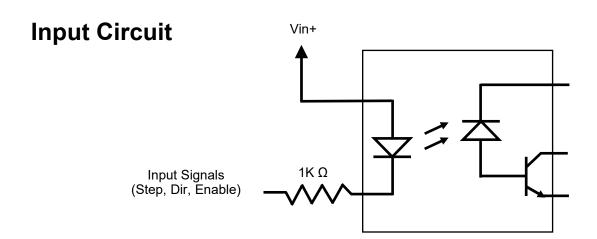


503-629-8081, Fax: 503-629-0688 E-mail: SalesOR@OMSmotion.com

www.OMSmotion.com

Electrical Specifications

Parameter	Min	Тур	Max	Unit	Notes
Supply Voltage	8		35	VDC	
Output Current/Phase (PEAK)	0	1.2	1.7	Α	Set through RS485 interface
Vin+		5	20	V	
Input Voltage (STEP/DIR/ENABLE)	0		20	V	
STEP frequency	0		2	MHz	The maximum frequency is gated by the optocoupler's circuitry.
High Input Current 20V input 5V input			20 5	mA mA	1K Ohm series resistor on Opto- input



Environmental Specifications

- Outline....... 1.54" x 1.54" x 0.77" (including mating connectors)

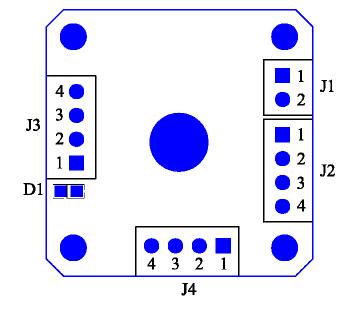


"The Company in Motion"

Connector Pin-out

PIN	J3
1	GND
2	D-/B
3	D+/A
4	Vcc / Cfg

PIN	J4
1	GND
2	Pos Limit
3	Neg Limit
4	Home



PIN	J2
1	Phase2
2	Phase2
3	Phase1
4	Phase1

PIN	J1
1	+10 to +30 VDC
2	GND

STATUS LED (D1)

D1, PATTERN		DESCRIPTION	
	Short Flash ON	Drive disabled (J3,4 short to J3,1)	
	Fast Blink	Power low / Initialize	
	Slow Blink	Motor Disabled (ABL = no motor current)	
	Flash OFF	Motor in Hold Current (no motion active)	
	Green On solid	Motor in Run Current (motion active)	
	Double Flash OFF	Transition to Drive Disable (motion active)	

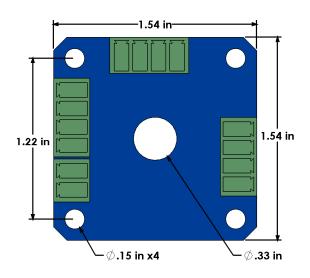
1(800) 707-8111, 503-629-8081 Fax: 503-629-0688

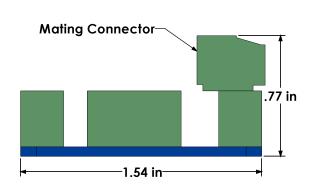
Sales@OMSmotion.com



OMD18

Dimensions





Optional Cover



Typical Application





ORDERING INFORMATION

Model Description

OMD18 Integrated Drive/Controller, Size 17, 1.5A

1(800) 707-8111, 503-629-8081 Fax: 503-629-0688

Sales@OMSmotion.com

