



PHIDGETS Inc.

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PhidgetMotorControl 1-Motor

ID: 1065_0B

Control one motor as well as an encoder and up to 2 analog and 2 digital sensors. Connects to a USB port.

\$75.00

Quantity Available: 254

Qty	Price
5	\$71.25
10	\$67.50
25	\$60.00
50	\$52.50
100	\$48.75
250	\$45.00
500	\$41.25
1000	\$37.50

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Product Specifications

Controller Properties

API Object Name	MotorControl
Motor Type	DC Motor
Number of Motor Ports	1
Velocity Resolution	0.39 % Duty Cycle
Acceleration Resolution	24.5 % Duty Cycle/s
Acceleration Min	24.5 % Duty Cycle/s
Acceleration Max	6250 % Duty Cycle/s
Acceleration Time Min	31.3 ms

Acceleration Time Max	8.2 s
Board Properties	
Controlled By	USB (Mini-USB)
API Object Name	DCMotor
Encoder Interface	
Number of Encoder Inputs	1
Count Rate Max	500000 cycles/s
Encoder Interface Resolution	x1
Update Rate	125 samples/s
Time Resolution	0.33 ms
Encoder Input Low Voltage Max	800 mV DC
Encoder Input High Voltage Min	2.1 V DC
Encoder Pull-up Resistance	2.4 kΩ
Electrical Properties	
Supply Voltage Min	9 V DC
Supply Voltage Max	28 V DC
Continuous Motor Current Max	5 A
Overcurrent Trigger	8 A
Current Consumption Min	20 mA
Current Consumption Max	100 mA
USB Speed	Full Speed
Physical Properties	
Recommended Wire Size (Power Terminal)	12 - 24 AWG
Operating Temperature Min	0 °C
Operating Temperature Max	70 °C
Voltage Inputs	
Number of Voltage Inputs	2
Input Impedance	900 kΩ
5V Reference Error Max	0.5 %
Update Rate	125 samples/s
Digital Inputs	
Number of Digital Inputs	2
Pull-up Resistance	15 kΩ
Low Voltage Max (True)	800 mV DC
High Voltage Min (False)	2.1 V DC
Low Voltage Trigger Length Min	4 s
High Voltage Trigger Length Min	16 s

Digital Input Voltage Max	± 15 V DC
Digital Input Update Rate	125 samples/s
Recommended Wire Size	16 - 26 AWG