

## 20350

DC Full/Half Step Drive w/ Oscillator



### Product Features

- On-board oscillator
- Full & half step
- Idle current reduction
- Screw terminal connectors
- Dip switch setup
- Analog speed adjustment
- Tach output
- Enable input (inhibit)
- Optically isolated inputs



### Description

The 20350 step motor driver is a full or half step drive, step phase sequencer with three state switching amplifiers and optoisolated circuits. This drive has a built in ramping pulse generator (oscillator) with adjustable speed, acceleration and deceleration. Oscillator speed range is 0-5,000 Hz. Speed can be set from on-board trimpot or external pot.

A jumper allows you to select the internal oscillator. In oscillator mode, the pulse input becomes a run/stop signal: when this signal is set high, the motor accelerates to a preset speed and slews. Lowering the input signal causes the drive to decelerate to rest.

The amplifier regulates motor current by chopping at a constant, inaudible frequency. Phase current is selected from 16 levels by a DIP switch.

## Specifications

<b>Model Number</b>	20350
<b>Part Number</b>	1000-055
<b>Supply Voltage</b>	12-35 VDC
<b>Supply Voltage Type</b>	DC
<b>Control Modes</b>	<ul style="list-style-type: none"><li>• Step &amp; Direction</li><li>• Velocity (Oscillator)</li></ul>
<b>Output Current</b>	0.125-2.0 A/phase
<b>Communication Ports</b>	NA
<b>Encoder Feedback</b>	No
<b>Step Resolution</b>	<ul style="list-style-type: none"><li>• Full</li><li>• Half</li></ul>
<b>Idle Current Reduction</b>	50%
<b>Setup Method</b>	Switch / potentiometer
<b>Digital Inputs</b>	3
<b>Digital Outputs</b>	1
<b>Analog Inputs</b>	1
<b>Dimensions</b>	4.0 x 3.0 x 1.5 inches
<b>Weight</b>	9 oz
<b>Operating Temperature Range</b>	0-70 °C
<b>Ambient Temperature Range</b>	0-50 °C
<b>Ambient Humidity</b>	90% max, non-condensing
<b>Status LEDs</b>	1 red (power)
<b>Circuit Protection</b>	NA

## Software

<b>Software Downloads</b>	There is no software related to this product.
<b>Sample Code</b>	There are no sample code documents at this time.

## 2D Drawings

