| OMNICODER® PROGRAMMING TOOL
PN 60031-101

Introduction

The Omnicoder® programming tool is designed to make the re-programming of the Omnicoder Encoder as simple as possible. It is powered by the USB port of a laptop computer and uses a special data cable to transfer the new resolution to the encoder. Omnicoders come from the factory pre-programmed with a resolution of 1024 counts per turn and can be changed to any whole number value from 1 to 10,000. Changing the resolution only takes a matter of a few seconds once the Omnicoder is attached to the computer.

Features
- Easy set-up and installation of software
- Simple, visual connection verification
- Encoder comes pre-tested and programmed at 1024 cpt
- Just type in your new resolution and click the program button
- Straightforward and fast reprogramming.
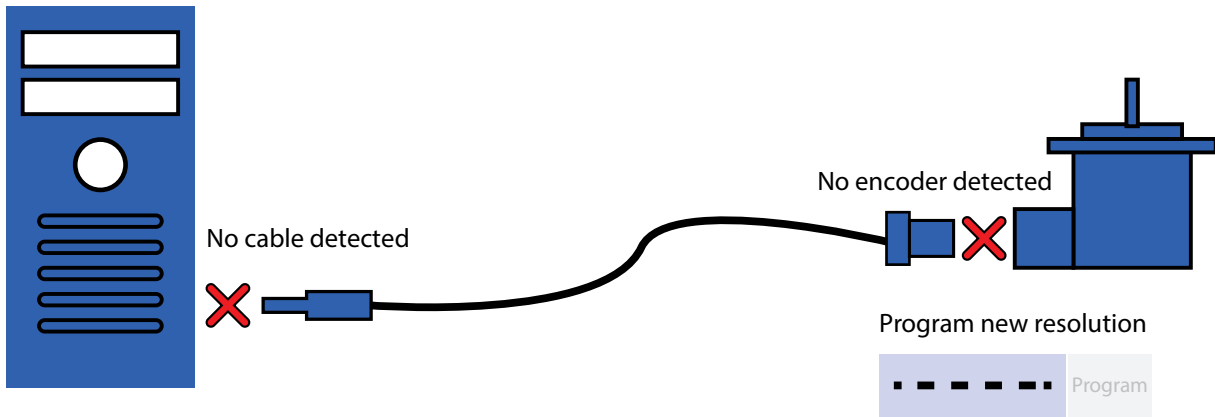
Applications
- Installations with frequent adjustments or set-ups like printing or packaging
- Plant maintenance where you don't know which encoder resolution to stock for repairs. With the Omnicoder you just stock one and program it as needed.
- As a way to do electronic line shafting, especially when you have an unusual ratio between shafts, like 5:8 for example.

INSTALLATION AND PROGRAMMING

Installing the USB Driver and Software
- **Step 1** Go to https://www.sensata.com/resources/omnicoder-programming-software to download the software
- **Step 2** Click on the "Windows: USB Virtual COM Port Driver" and save the file to your hard drive. (Omnicoder® Programming is currently supported on Windows only).
- **Step 3** Unzip the USB driver to a directory on your hard drive. This will ensure that you have a clear USB port available for use by your Omnicoder®. You are now ready to install the Omnicoder® software.
- **Step 4** Run "setup" to install drivers
- **Step 5** From the Omnicoder® software webpage, click on the "Windows: Omnicoder® Program" and save the file to your hard drive
- **Step 6** Unzip the program to a directory on the hard drive.
- **Step 7** Run "setup" to install the Omnicoder® Programming software.
- **Step 8** The program should start automatically. You have finished installing the software and are now ready to program your Omnicoder®. (All Omnicoders® are shipped pre-programmed for 1024 CPT). Below is a screen shot of the program interface.

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Programming the Omnicoder®

- **Step 9** Using the Omnicoder® programming cable (60031-101), plug the USB connector end into your PC. The red X (No cable detected) should change to a green check mark, indicating that the USB Programming Module was detected. (This may take up to 15 seconds)
- **Step 10** Plug the M18 connector end into the Omnicoder® unit. The red X (No encoder detected) should change to a green check mark, and the current Omnicoder® resolution will be displayed on your computer screen.
- **Step 11** To change the Omnicoder® resolution, enter a new resolution as an integer between 1 and 10000 in the box labeled "Program New Resolution." Then click the "Program" button. In a few seconds, the new resolution will be uploaded to the Omnicoder®. The Omnicoder® is now programmed and can be disconnected. To program a new resolution, repeat Steps 9-11

CONTACT US

Americas
+1 (800) 350 2727 – Option 1
sales.beisensors@sensata.com

Europe, Middle East & Africa
+33 (3) 88 20 8080
position-info.eu@sensata.com

Asia Pacific
sales.isasia@list.sensata.com
China +86 (21) 2306 1500
Japan +81 (45) 277 7117
Korea +82 (31) 601 2004
India +91 (80) 67920890
Rest of Asia +886 (2) 27602006
ext 2808

www.sensata.com