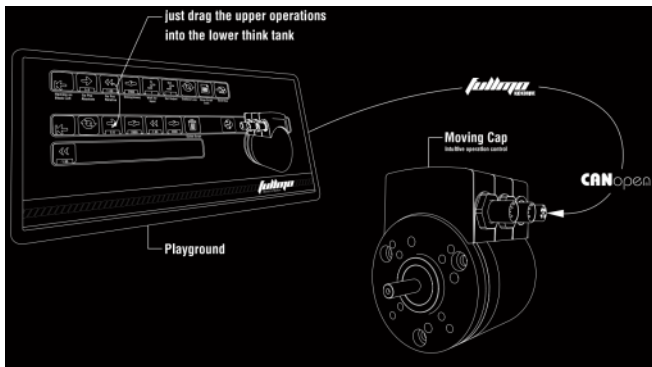


# MovingCap 349

## Basic Setup

Author: Oliver Heggelbacher, rev: 05.09.2019  
[www.fullmo.de](http://www.fullmo.de) / [www.kickdrive.de](http://www.kickdrive.de)



The 24 VDC power connector for the **MovingCap 349** compact drive is on the side of the drive shaft (the angle plug in the picture below).



Connect the black Fullmo **USB2Drive** device via USB to your PC. Connect the USB2Drive via the CAN Bus cable (usually purple color) to the drive (the middle M12 connector).

### Safety Notices



**For Qualified Personnel only**  
**Fullmo MovingCap** is a compact drive for **industrial applications**. Improper operation may result in injury.



Fullmo MovingCap drives may be preloaded with Python script programs and may **start moving immediately** after connecting the power supply.

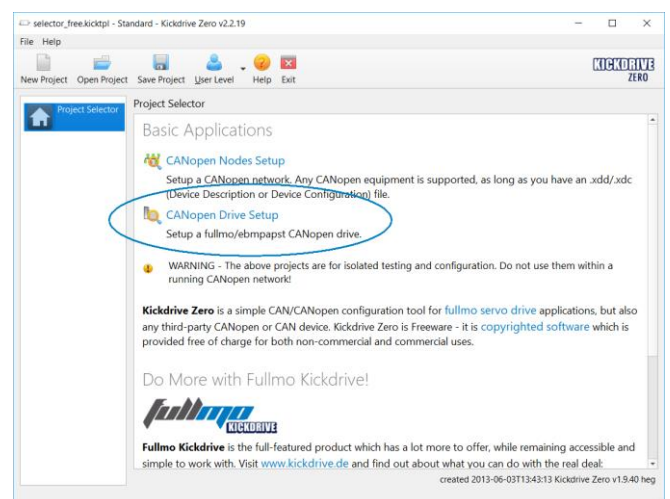
Additional documentation (German) on MovingCap 349 can be found at:

<https://fullmo.de/rotative-antriebstechnik/>

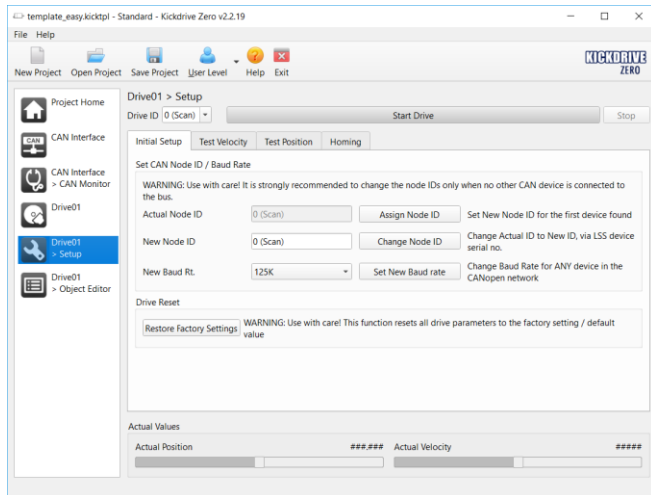


Download **Kickdrive Zero**:  
[www.kickdrive.de/sw/KickdriveZero.exe](http://www.kickdrive.de/sw/KickdriveZero.exe)  
and start it by double-click.

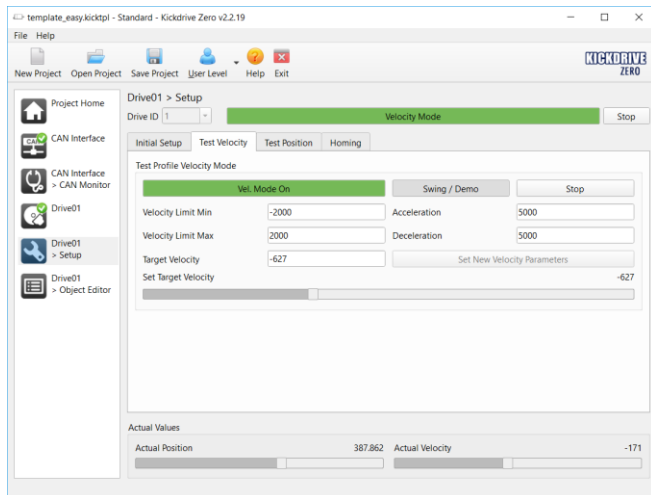
Select the **CANopen Drive Setup** application from the **Project Selector**.



Select the tile / module **Drive 01 > Setup**

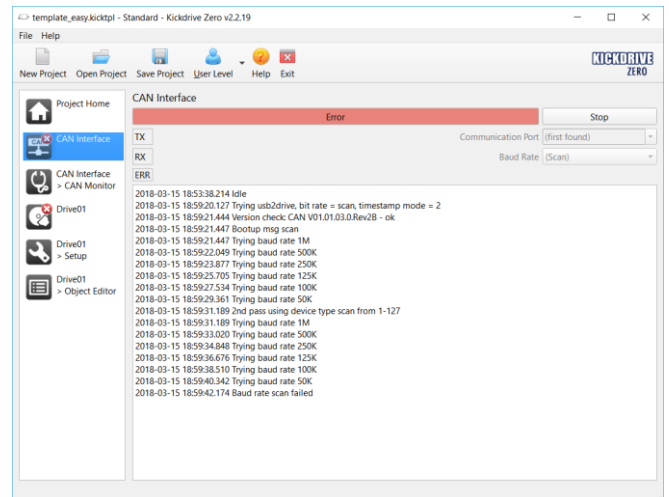


Press **Start Drive**. Kickdrive is now looking for the appropriate baud rate for the connected drive, as well as the correct node ID. If successful, the drive is initialized and Kickdrive confirms with a green status display.

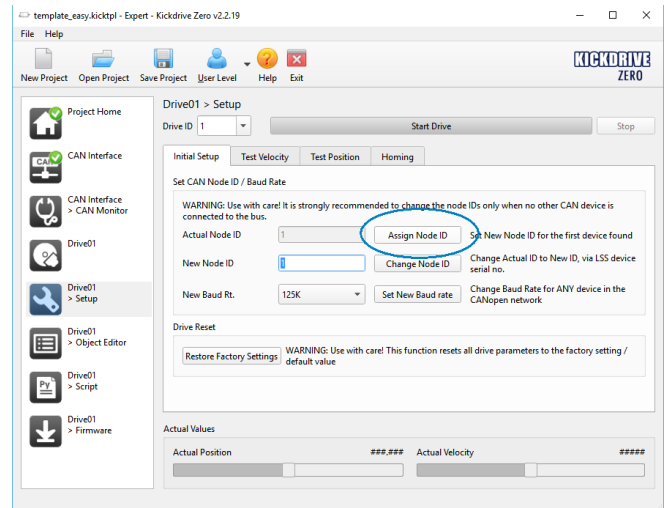


You can now rotate the drive right or left, e.g. by moving the slider in **Set Target Velocity**.

If the drive cannot be reached or the USB2Drive interface is not correctly connected, you will receive a corresponding feedback:



For use in CANopen fieldbus applications, both the **CAN Baud Rate** (bus speed) and the so-called **CANopen Node Id** of the drive must be set appropriately. In the module **Drive 01 > Setup**, see the **Initial Setup** area and the functions **Assign Node ID** and **Set New Baud Rate** to change your drive's setup.



The Fullmo Playground demo (see [fullmoPlaygroundDemoMovingCap349\\_en.pdf](#)) for example requires **Baud Rate = 125K** and **Node ID = 1**.

A special feature of the MovingCap drives is the built-in **Python application engine**. To use it, switch **User Level** to **Expert**. The password is no secret and also **expert**.

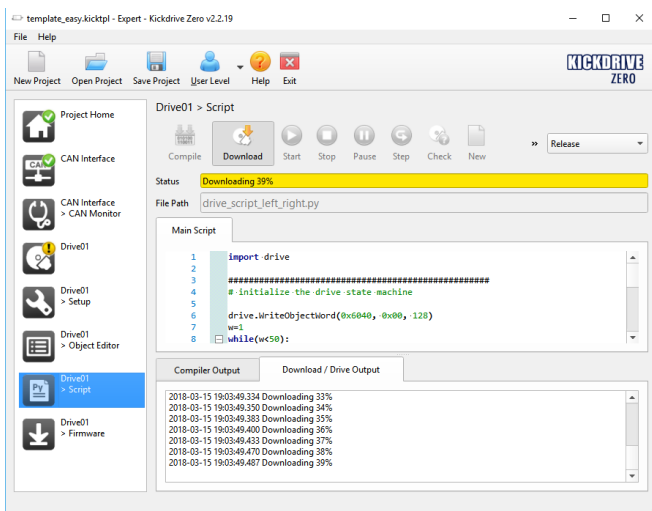
Then go to the now available area **Drive01 > Script** and click **Download**. The Python example code for a simple left / right velocity operation is loaded into the drive and permanently stored.



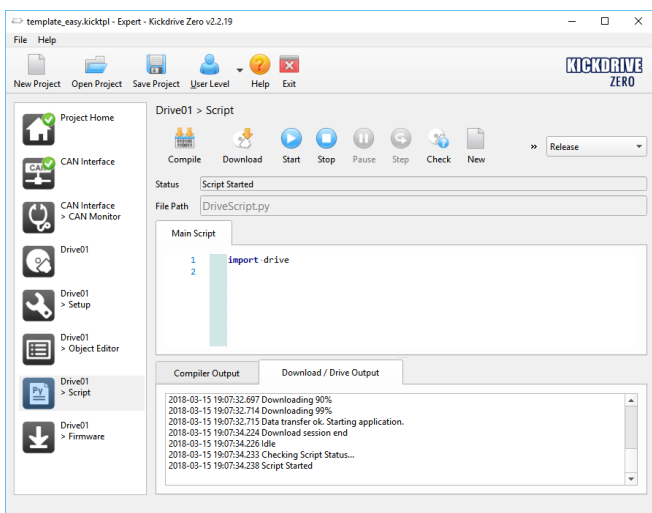
The drive starts moving after completion of the download, also after supply voltage reset / reconnection.

The **fullmo Kickdrive** software offers complete drive parameterization and diagnostics including oscilloscope. More information can be found at <https://kickdrive.de>

This document and further documentation on MovingCap 349 can be found at: <https://fullmo.de/rotative-antriebstechnik/>



To delete the stored program, select **New** to create an empty script and perform **Download** again.



Another demo application for Python control is described in **fullmoPlaygroundDemoMovingCap349\_en.pdf**.