Digital DRIVE for Brushless motors
SMD Series

Stepper mode Quick Start guide

Read manual before installing and follow all instructions with this icon: 

SMD-Stepper Quick Start Guide-1935-EN

Stepper Quick Start Guide

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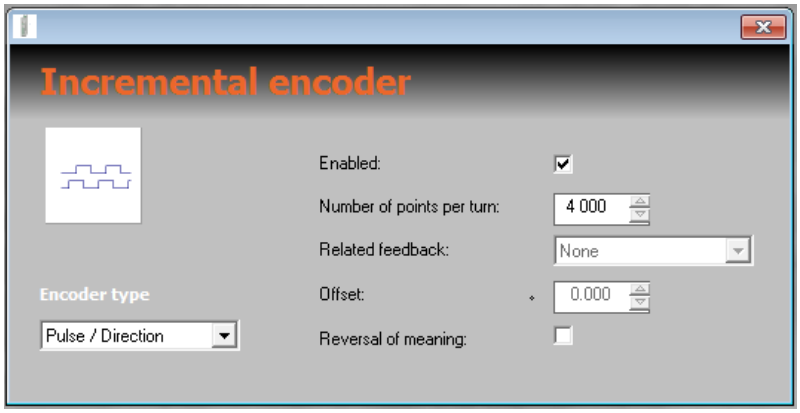
Revision	Edited by	Date	Modification
R2109	AG (SERAD)	03/03/2021	Update screenshot
R1935	AG (SERAD)	29/08/2019	Correction
R1927	AG (SERAD)	04/07/2019	First edition

Auxiliary configuration

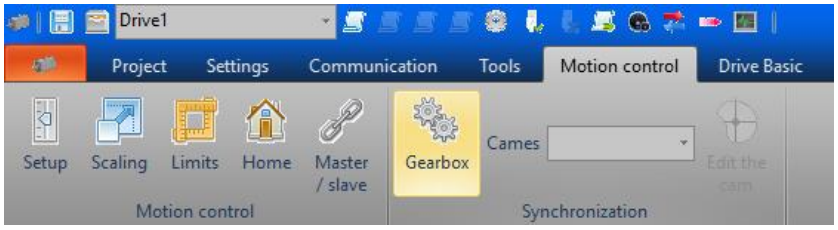
Start Incremental encoder configuration window:

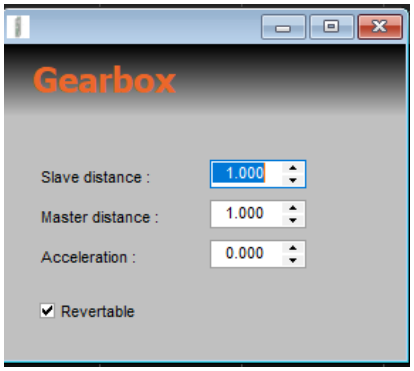


- Encoder type: Pulse/Direction
- Number of point per turn: indicate the number of pulses given for a turn.
  For example, if a PLC send 4000 pulses for one turn, Number of points per turn = 4000.
- Related feedback, and offset are not used for stepper mode.
- Reverse of meaning: tick if you want reverse the sense.

Gear box configuration

Start the GearBox configuration window:



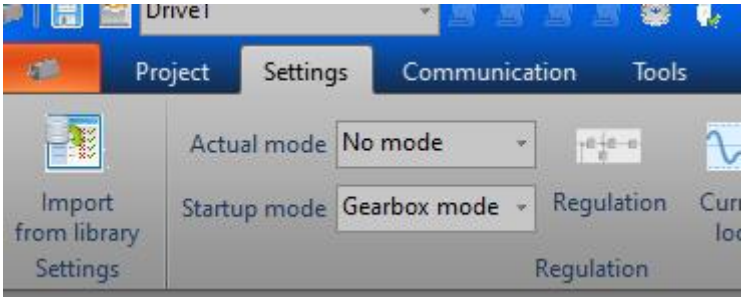


- Slave distance / Master distance: Allow to configure the ratio between the master (Auxiliary encoder) and the slave (Servo drive motor), this indicate which distance will be done by the slave for a determined distance of the master.
- Acceleration: indicate the master distance before apply the full configured ratio. During the Acceleration distance, the ratio grow up from 0 to the configured ratio
- Revertable indicate that the gearbox work in both direction.

Stand alone mode

Now we must configure the drive to automatically after the startup, start the gearbox mode.
The Master axis and slave axis will be automatically linked together on the startup.

Chose the gearbox mode here:

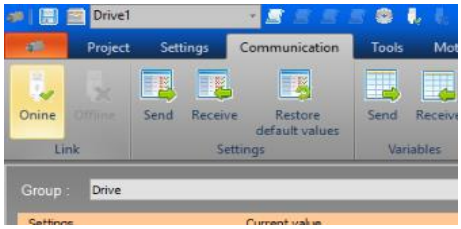


Enable the drive

The drive must be enabled. There are two ways:

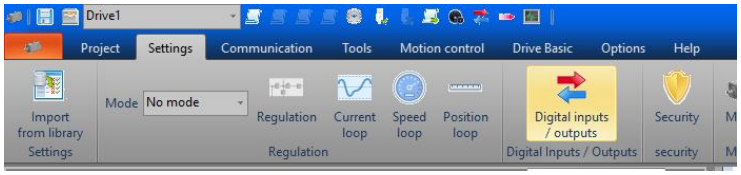
1. Using Drive Studio software:

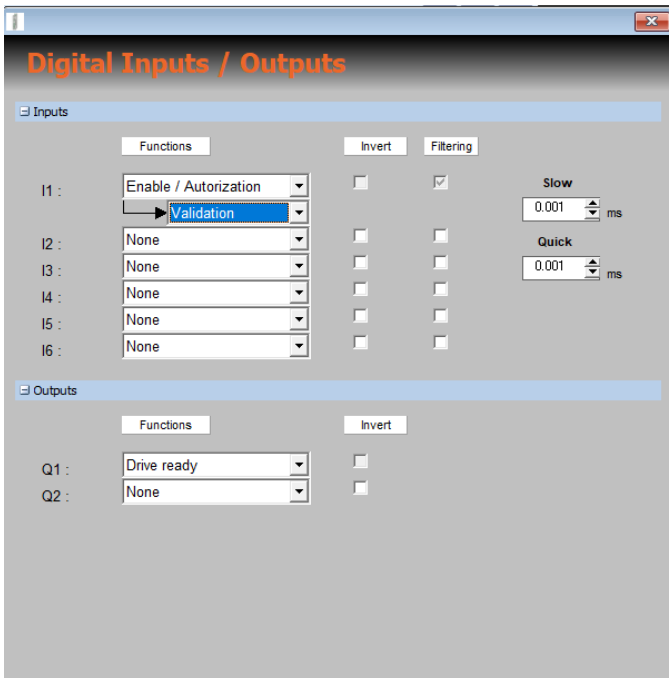
   a. Pass Online



   b. Enable the Drive on the right vertical bar

2. Using the Input Enable:





The input 1 must be configured with the “Special function” Enable.
Set value to “Validation”. Then now, if the input E1 goes to logical level ‘1’, the drive goes to Enable and the motor is now linked to the auxiliary pulses.