



SmartDRIVE Quick-start note

This note describe how to quick-start your motor with a minimum effort using SmartDRIVE controllers :

Using SmartSTK board

- connect your SmartSTK board to your controller
- connect the 4 wires of your stepper motor to the controller PHA+,PHA-,PHB+,PHB- outputs
- connect a power supply in the range 10-48Vdc to the controller (! never connect/disconnect your motor when the power supply is on - please switch the supply off before connecting/disconnecting your motor)
- pushing GO switch : motor turns CW, pushing DIR switch : motor turns CCW (default configuration is : speed GOP, GON)

For the driver configuration you can connect a DB9 cable to the PC serial port or an USB/RS 485 adapter (ordering code : ISOUSB485). You have to install the free software « SmartCC » on your computer and choose the COM. The green dot on the bottom right of the window show the connection to the driver is active.

The SmartCC software give you access to all the configuration parameters for configuring your drive. When you want to store inside the driver non volatile memory the actual configuration push the arrow knob on the menu bar. A more detailed description of the software « SmartCC » can be found on the Westline website www.westline.fr

The potentiometer on the SmartSTK board is used for speed scaling factor. If the input is left open a pull-up resistor inside the driver will operate the motor at the maximum speed as specified in the configuration register : motor speed .

If you want to operate the motor without any connections on the signals side you can reverse the mask polarity bit of the input GO and/ or DIR . When power is applied the motor will turn as configured.

Without using SmartSTK board

- connect the 4 wires of your stepper motor to the controller PHA+,PHA-,PHB+,PHB- outputs
- connect a power supply in the range 10-48Vdc to the controller (! never connect/disconnect your motor when the power supply is on please switch the supply off before to connect/disconnect your motor)
- you can make use of the GND 5V pins in the encoder or communication connector to supply optocoupler inputs GO/DIR or you can also make use of a separate supply in the range 5 to 24Vdc to preserve the isolation (local 5V supply is the same GND as the motor supply). Connect k-GO k-DIR pins to the GND pin and A-GO A-DIR pins through a switch to the 5Vpin
- pushing GO switch motor turns CW, pushing DIR switch motor turns CCW (default configuration is speed GOP, GON)

For the driver configuration you can use a DB9 cable to the PC serial port or an USB/RS 485 adapter (ordering code : ISOUSB485) to connect to an USB port. When you connect the driver to the serial port (limited operation distance to 2meters, TTL levels) you have to make the following connections :

DB9 connector pin Driver signal on comm. connector

Pin 5----- GND

Pin2 ----- Tx line

Pin3----- Rx line

You have to install the free software « SmartCC » on your computer and choose the COMM. The green dot on the bottom right of your window show the connection to the driver is active.

The SmartCC software give you access to all the configuration parameters of your driver. When you want to store inside the driver non volatile memory the actual configuration push the arrow knob on the menu bar. A more detailed description of the software « SmartCC » can be found on the Westline website www.westline.fr

The potentiometer on the SmartSTK board is used for speed scaling factor. If the input is left open (potentiometer switch is off) a pull-up resistor inside the driver will operate the motor at the maximum speed as specified in the configuration register : max. speed .

If you want to operate the motor without any connections on the signals side you can reverse the mask polarity bit of the input GO and/ or DIR . When power is applied the motor will turn as configured.