STÖBER
ANTRIEBSTECHNIK

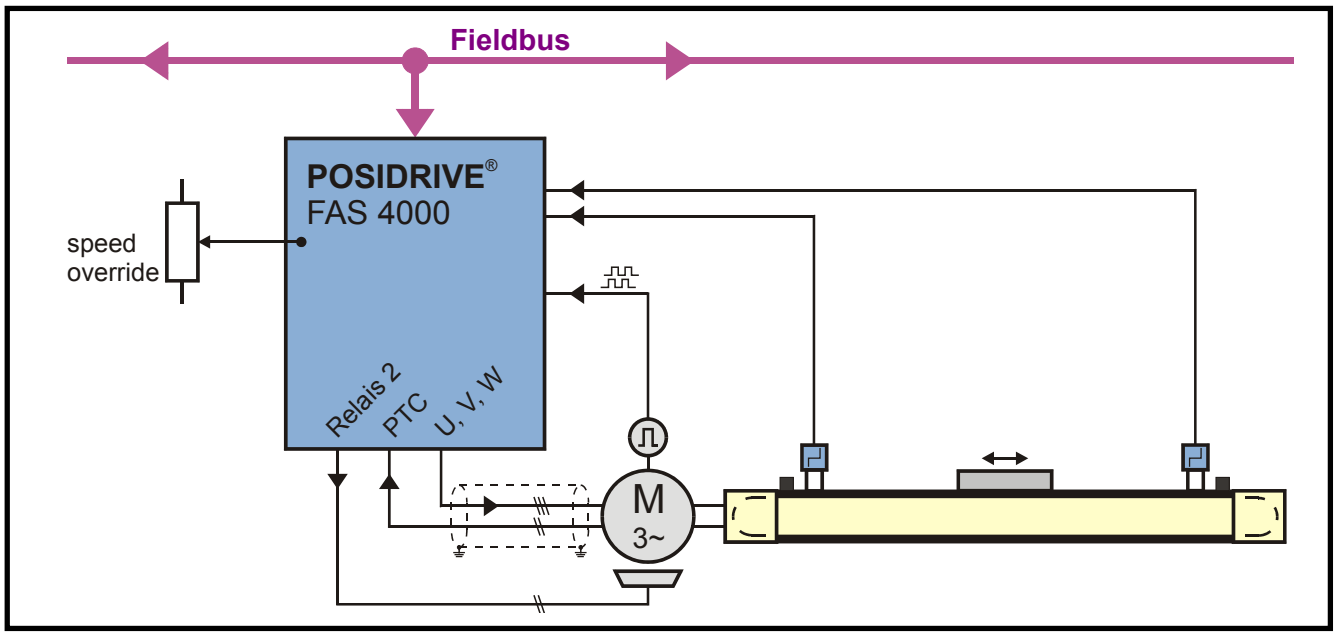
Positioning with **POSIDRIVE®** FAS 4000

The vector-controlled frequency inverter **POSIDRIVE®** FAS 4000 is designed as a building block of modern automation technology.

- Sensorless vector control (SLVC)
- Flow-oriented vector control with incremental encoder feedback (VC)
- Interface for incremental encoder (HTL)
- High-quality analog input
- **Paramodule** for very easy exchange of inverters
- Powerful, modular fieldbus interface
- Robust, transparent, plug-in connection technology

The **Posi Upgrade module** upgrades a complete, single-axis positioning controller. Particularly together with a fieldbus, this controller shows off its full range of powerful features. Here are some of the functions it offers the user.

- Destination traversing to the precise increment in VC mode
- In SLVC control mode the positioning controller can also be used without an encoder.
- Continuous position control with following error monitoring (VC)
- Positioning can be programmed in 8 process blocks.
- Rotary axis function; Gear ratio with specification of both axle numbers
- Parameter assignment with specification of units (e.g., degrees or mm)
- Reference traversing with several modes
- Manual operation (with inching)
- Teach-in function
- Speed override via analog input
- Hardware and software limit switch



... and here's how Posi Upgrade works.

Execution of **Posi Upgrade** requires a special module. A code is downloaded to the inverter from this **Posi Upgrade module** and stored non-volatilely in the exchangeable **Paramodule**.

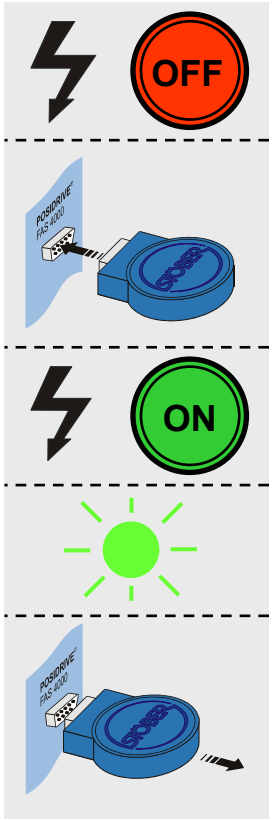
Customized to your needs

Depending on your requirements, a Posi Upgrade module with positioning code for 10, 20, 50 or 100 inverters can be delivered. Each time an upgrade is performed, the number of possible positioning upgrades is decremented by one.

Transparency

The FDS Tool software (starting with version 4.5D) can be used to read the contents of an upgrade module. Among others, a serial number list is indicated with the devices upgraded up to now and the number of positioning controller upgrades which are still possible.

Handling



Turn off the power supply.

Plug in the Posi Upgrade module.

Turn on the power supply.

Wait until the green LED is on <u>continuously</u>.

Disconnect Posi Upgrade module. → Finished !

To your advantage

- Once performed, a Posi Upgrade is retained even when the inverter is changed. It can be moved from one inverter to the next with the red **Paramodule**. This means you don't need a new upgrade each time you exchange a device.
- A red LED during an upgrade indicates a Posi Upgrade module which is "used up." If you don't have a new Posi Upgrade module handy, you can continue a once started commissioning procedure as follows. Disconnect the Posi Upgrade module and the positioning functionality remains fully available until the next power off.
- Do something for the environment. STÖBER Antriebstechnik will reload your completely used Posi Upgrade module with the desired number of Posi Upgrades.