better safe than sorry

Are you safe?

Play it safe with the SD6 drive controller

The SD6 drive controller offers innovative, encoder-independent safety functions and safe brake management for up to two brakes. The comprehensive safety functions meet the requirements of EN 61800-5-2 and are certified in accordance with SIL 3, PL e (Cat. 4).

In addition, you benefit from:

- Control of linear and rotary synchronous servo motors and asynchronous motors
- Isochronic system bus (IGB) for parameterization and multi-axis applications
- Flexible DC link connection using Quick DC-Link for multi-axis applications
- A convenient operating unit consisting of graphical display and keys
- Paramodul removable data storage for quick commissioning and efficient service

Safety technology
in cooperation with

SAFE

Are your movements safe?
The SE6 safety module from STOBER offers safety functions for use in safety-related applications up to SIL 3, PL e (Cat. 4) in accordance with DIN EN 61800-5-2 and DIN EN ISO 13849-1.

- The **SE6** provides other safety functions alongside the basic Safe torque off (STO) safety function. In addition to the Safe stop 1 (SS1) and Safe stop 2 (SS2) safe stop functions, these also include Safely-limited speed (SLS), Safe brake control (SBC), Safe direction (SDI) and Safely-limited increment (SLI). These normative safety functions are supplemented by practical additional functions such as Safe brake test (SBT).

Are your vertical axes safe?
Safe brake management is more than just safe control!
The Association of Occupational Accident Insurance Funds (DGUV) in Germany describes requirements for securing gravity-loaded vertical axes.

- **Safe brake management:** Together with the optional SE6 safety module, the practice-oriented SD6 fulfils DGUV safety requirements for gravity-loaded vertical axes. The safe brake management supports the safe control of up to two brakes as well as their testing and necessary test cycle monitoring.

FLEXIBLE

Are your safety functions flexible enough?
Choose your drive components from any product in the STOBER range for safety-relevant applications.

- **Multi-manufacturer interfaces** enable the free selection of motors and encoders (synchronous servo motors, asynchronous motors, linear motors, synchronous servo motors with hollow shaft, etc.). Continue using a motor, encoder and cable or make the selection that is best for you!

- **Freely combinable functionality.** In addition to the basic safety function of the SS1, 10 additional safety functions can be configured and assigned flexibly to the safe inputs and outputs.

- **Simple service concept.** In case of service, just replace, validate and test the Paramodul—that's it. No special skills required!

- **Safe monitoring.** Safe reporting instead of a forced stop. This function enables flexible solutions in the safety controller, especially in complex systems.

- **Controlled shutdown.** Benefit from short reaction times, lower safety distances and faster recovery. The SE6 offers you the option to stop drives in an application-specific manner in the event of a limit value violation or during an emergency stop. You have the option of controlling the brake ramp directly or safely monitoring it.

EFFICIENT

Do you have to sacrifice performance or availability?
The STOBER SE6 safety module offers a simple, streamlined solution. Save space, time and money!

- **Use what is available.** You do not need any special motors, encoders, cables or stall or speed sensing switches.

- **React quickly.** The low worst case response time of less than 10 ms enables quick stopping and low safety distances.

- **Prevent accidental activation.** Monitor your limit values based on position and specifically hide certain interference pulses using variable tolerance windows.

- **Monitor continuously.** Continuous, controller-independent monitoring reduces the number of safe inputs and outputs at the higher-level safety controller.

- **Easily and quickly put the system into operation.** The DriveControlSuite project configuration and commissioning software conveniently guides you through the selection and parameterization of the safety functions using wizards as well as provides you with support in the monitoring and diagnosis of movements.

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