Safety notes

- **The actuator is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.**
- **It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.**
- **The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.**
- **The cable must not be removed from the device.**
- **Adaptation is necessary when the system is commissioned and after each adjustment of the angle (press the adaptation push-button)**
- **When calculating the required torque, the specifications supplied by the damper manufacturers (cross section, design, installation site), and the air flow conditions must be observed.**
- **The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.**

Product features

Simple direct mounting
Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override
Manual override with push-button possible (the gear is disengaged for as long as the button is pressed or remains locked).

Adjustable angle of rotation
Adjustable angle of rotation with mechanical end stops.
A minimum permissible angle of rotation of 30° must be allowed for.

High functional reliability
The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Home position
The first time the supply voltage is switched on, i.e. during initial startup, the actuator carries out an adaptation. After pressing the «gear disengagement» pushbutton, the actuator moves to the home position at the end stop.

Pos. Direction of rotation		Home position	
0 / 1	0	ccw	Left stop
	1	cw	Right stop

The actuator then moves into the position defined by the control signal.

Adaption and synchronisation
During adaptation, the upper and lower spindle end stop is recorded and deposited in the actuator. Detection of the mechanical end stops enables a gentle approach to the end positions and thus protects the actuator mechanism.
During synchronisation, the actuator moves to the home position for angle referencing. This ensures correct position regulation.

Accessories

	Description	Data sheet
Electrical accessories	Auxiliary switch S..A..	T2 - S..A..
	Feedback potentiometer P..A..	T2 - P..A..
	Adapter Z-SPA Ordering of this adapter is compulsory if an auxiliary switch or a feedback potentiometer is required and the clamp is simultaneously mounted on the rear of the actuator (e.g. with short-spindle mounting).	
Mechanical accessories	Various accessories	T2 - Z-GM..A..