

Rotary actuator fail-safe for adjusting dampers in technical building installations

- Air damper size up to approx. 6 m²
- Torque motor 30 Nm
- Nominal voltage AC 230 V
- Control Open/close


Technical data

Electrical data	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 90...264 V
	Power consumption in operation	9 W
	Power consumption in rest position	4.5 W
	Power consumption for wire sizing	21 VA
	Connection supply / control	Cable 1 m, 2 x 0.75 mm ² (halogen-free)
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	30 Nm
	Torque fail-safe	30 Nm
	Direction of motion motor	selectable by mounting L/R
	Direction of motion fail-safe	selectable by mounting L/R
	Manual override	by means of hand crank and locking switch
	Angle of rotation	Max. 95°
	Angle of rotation note	adjustable starting at 33% in 5% steps (with mechanical end stop)
	Running time motor	75 s / 90°
	Running time fail-safe	<20 s / 90°
	Running time fail-safe note	@ -20...50°C / <60 s @ -30°C
	Sound power level, motor	56 dB(A)
	Sound power level, fail-safe	71 dB(A)
	Mechanical interface	Universal shaft clamp 12...26.7 mm
	Position indication	Mechanical
Service life	Min. 60'000 fail-safe positions	
Safety	Protection class IEC/EN	II reinforced insulation
	Degree of protection IEC/EN	IP54
	EMC	CE according to 2014/30/EU
	Low voltage directive	CE according to 2014/35/EU
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Type 1.AA
	Rated impulse voltage supply / control	2.5 kV
	Control pollution degree	3
	Ambient temperature	-30...50°C
	Storage temperature	-40...80°C
	Ambient humidity	Max. 95% r.H., non-condensing
Servicing	maintenance-free	
Weight	Weight	5.2 kg

Safety notes



- The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
- Outdoor application: only possible in case that no (sea) water, snow, ice, insolation or aggressive gases interfere directly with the actuator and that is ensured that the ambient conditions remain at any time within the thresholds according to the data sheet.
- Caution: Power supply voltage!
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- 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.
- Cables must not be removed from the device.
- To calculate the torque required, the specifications supplied by the damper manufacturers concerning the cross-section, the design, the installation site and the ventilation conditions must be observed.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

Mode of operation	The actuator moves the damper to the operating position at the same time as tensioning the return spring. The damper is turned back to the safety position by spring energy when the supply voltage is interrupted.
Simple direct mounting	Simple direct mounting on the damper shaft with a universal shaft clamp, supplied with an anti-rotation device to prevent the actuator from rotating.
Spindle stabiliser	The shaft clamp of the spring-return actuator is factory-equipped with an axis stabiliser for the stabilisation of the combination of damper, damper shaft and actuator. This is comprised of two plastic support rings and must be left in place, partially, or completely removed, depending on the installation situation and the axis diameter.
Manual override	By using the hand crank the damper can be actuated manually and engaged with the locking switch at any position. Unlocking is carried out manually or automatically by applying the operating voltage.
Adjustable angle of rotation	Adjustable angle of rotation with mechanical end stops.
High functional reliability	The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.

Accessories

	Description	Type
Mechanical accessories	End stop indicator	IND-EFB
	Shaft clamp reversible, clamping range Ø12...26.7 mm	K9-2
	Damper crank arm Slot width 8.2 mm, clamping range Ø14...25 mm	KH10
	Actuator arm Slot width 8.2 mm	KH-EFB
	Mounting kit for linkage operation for flat and side installation	ZG-EFB
	Anti-rotation mechanism 230 mm, Multipack 20 pcs.	Z-ARS230
	Hand crank 63 mm	ZKN2-B

Electrical installation



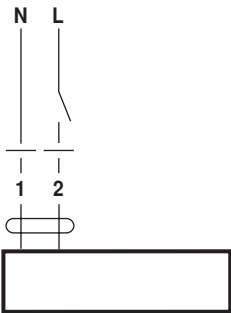
Notes

- Caution: Power supply voltage!
- Parallel connection of other actuators possible. Observe the performance data.

Electrical installation

Wiring diagrams

AC 230 V, open/close



Cable colours:
1 = blue
2 = brown

Installation notes

	Notes	<ul style="list-style-type: none"> The shaft stabiliser must nevertheless be used with installation of the anti-rotation device on the opposite side of the shaft clamp and a shaft diameter <20 mm.
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Spindle stabiliser long spindle mounting In the case of long shaft installation the use of the shaft stabiliser at a shaft diameter of

- 12...20 mm is necessary
- 21...26.7 mm is not necessary and can be removed

Spindle stabiliser short spindle mounting In the case of short spindle installation, the necessity of the shaft stabiliser is dispensed with. It can be removed or – if the spindle length permits this – left in the clamp.

Dimensions [mm]

Spindle length

		Min. 117
		Min. 20

Clamping range

	12...22	12...18
	22...26.7	12...18

Dimensional drawings

