

Spring-return actuator for fire and smoke dampers 90° in ventilation and air-conditioning systems

- Nominal torque 6 Nm / 4 Nm
- Nominal voltage AC 230 V
- · Control open-close
- Damper rotation form fit 12 mm (10 mm with enclosed adapter)





		PROTECT LIFE FAL-SAFE SOLUTIONS BY BELINO
Technical data		
Electrical data	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 198 V 264 V
	Power consumption in operation	6 W
	Power consumption at rest	3 W
	Power consumption for wire sizing	7 VA
	Power consumption for wire sizing note	Imax 150 mA @ 10 ms
	Auxiliary switch	2 x SPDT
	Switching capacity auxiliary switch	Contact gold-plated silver: 1 mA 3 (0.5) A, DC 5 V AC 250 V (II Totally insulated)
	Switching points auxiliary switch	5° / 80°
	Connection supply	Cable 1 m, 2 x 0.75 mm ² (halogen-free)
	Connection auxiliary switch	Cable 1 m, 6 x 0.75 mm ² (halogen-free)
Functional data	Torque motor	Min. 6 Nm
	Torque spring-return	Min. 4 Nm
	Direction of rotation motor	Can be selected by mounting L / R
	Angle of rotation	Max. 95° (incl. 5° initial spring tension)
	Running time motor	40 75 s (0 6 Nm) / 90°
	Running time spring-return	~20 s @ -20 50°C / max. 60 s @ -30°C
	Sound power level motor max.	45 dB (A)
	Sound power level spring-return max.	63 dB (A)
	Damper rotation	Form fit 12 mm (10 mm with enclosed adapter)
	Position indication	Mechanically, with pointer
	Service life	Min. 60,000 safety positions
Safety	Protection class IEC/EN	II Totally insulated
	Degree of protection IEC/EN	IP54 in all mounting positions
	EMC	CE according to 2004/108/EC
	Low-voltage directive	CE according to 2006/95/EC
	Certification IEC/EN	Certified according to IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Type 1.AA.B
	Rated impulse voltage supply / control	4 kV
	Control pollution degree	3
	Ambient temperature normal duty	-30°C 50°C
	Ambient temperature safety duty	The safety position will be attained up to max. 75°C when triggered by a thermal fuse
	Non-operating temperature	-40°C 80°C
	Ambient humidity	95% r.h., non-condensing
	Maintenance	Maintenance-free
	-	

Weight

Weight approx.

1.68 kg



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.
- Caution: Power supply voltage!
- The actuator is adapted and mounted to the fire and smoke damper by the damper manufacturer. For this reason, the actuator is only supplied direct to safety damper manufacturers. The manufacturer then bears full responsibility for the proper functioning of the damper.
- 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 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

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.

Signalling

Two microswitches with fixed settings are installed in the actuator for indicating the damper end positions.

Manual operation

The position of the damper blade can be read off on a mechanical position indicator. Without power supply, the damper can be operated manually and fixed in any required position. It can be unlocked manually or automatically by applying the supply voltage.

Accessories

Electrical accessories Mechanical accessories

Description	Data sheet name
Auxiliary switch, 2 x SPDT, 6 A (2.5 A), AC 250 V	SN2-C7
Adapter with clamp for rotary axes up to 20 mm for BF and BLF	ZK-BF
Adapter with DM18 rotary axis, L = 33 mm for BF and BLF	ZA18-BF
Adapter 12/8 mm for BF and BLF	ZA8-BF
Adapter 12/11 mm for BF and BLF	ZA11-BF
Bracket for SN1 and SN2 auxiliary switches, For BLF actuators	ZSN-BLF

Electrical installation

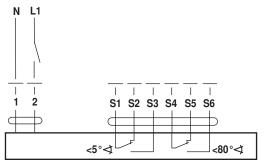


Notes

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

Wiring diagrams

AC 230 V, open-close



Cable colours:

1 = blue2 = brown

S1 = white S2 = white

S3 = white

S4 = whiteS5 = white

S6 = white



Dimensions [mm]

Dimensional drawings

