

Technical data sheet

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

- Nominal torque 18 Nm / 12 Nm
- Nominal voltage AC/DC 24 V
- Control open-close
- Damper rotation form fit 12 mm (10 mm with enclosed adapter)



Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2 V 28.8 V / DC 21.6 V 28.8 V
	Power consumption in operation	7 W
	Power consumption at rest	2 W
	Power consumption for wire sizing	10 VA
	Power consumption for wire sizing note	lmax 8.3 A @ 5 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. 18 Nm
	Torque spring-return	Min. 12 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	<120 s / 90°
	Running time spring-return	~16 s (tamb = 20 °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	III Safety extra-low voltage
-	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	0.8 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.	2.8 kg



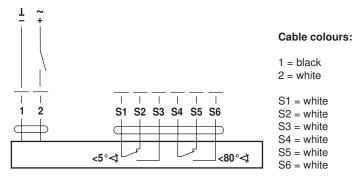
Safety notes		
	 The actuator is not allowed to be used outside the specified field or especially in aircraft or in any other airborne means of transport. The actuator is adapted and mounted to the fire and smoke damper manufacturer. For this reason, the actuator is only supplied direct to manufacturers. The manufacturer then bears full responsibility for t functioning of the damper. The device may only be opened at the manufacturer's site. It does parts that can be replaced or repaired by the user. The device contains electrical and electronic components and is not disposed of as household refuse. All locally valid regulations and rebe observed. 	r by the damper o safety damper the proper not contain any ot allowed to be
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. The position of the damper blade can be read off on a mechanical position indicator.	
Manual operation	Without power supply, the damper can be operated manually and fixe position. It can be unlocked manually or automatically by applying the	
Accessories		
	Description	Data sheet name
Electrical accessories	Thermoelectric tripping devices	BAE72 BAE72-F-ST
	Thermoelectric tripping devices with test button	BAE72-S BAE72-S-F-ST
	Auxiliary switch, 2 x SPDT, 6 A (2.5 A), AC 250 V	SN2-C7
	Cable set with plug, $L = 0.5$ m for BF and BLF on communication and power supply units	ZST-BS
Mechanical accessories	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 ZA11-BF
	Adapter 12/11 mm for BF and BLF Bracket for SN2-C7 auxiliary switch for BF and BR	ZSN-BF
Electrical installation		
∧ Notes	Connection via safety isolating transformer.	
A NOLES		



Electrical installation

Wiring diagrams

AC/DC 24, open-close



Dimensions [mm]

Dimensional drawings

