

Technical data sheet

BLF24-ST

Spring-return actuator for fire and smoke dampers 90° in ventilation and air-conditioning systems, with connection plugs for simple integration in control and monitoring systems or bus networks via communication and power supply units

- Nominal torque 6 Nm / 4 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	5 W
	Power consumption at rest	2.5 W
	Power consumption for wire sizing	7 VA
	Power consumption for wire sizing note	Imax 5.8 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)
	Connection plug	Supply / control: 3-pole plug, suitable for communication and power supply units (see "Accessories")
		Auxiliary switch: 6-pole plug, suitable for communication and power supply units (see "Accessories")
Functional data	Torque motor	Min. 6 Nm
i unotional uata	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	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.	1.6 kg



Safety notes	
Ţ	 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. 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	n 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.
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Manual operation	
Connectir	g The actuator is fitted with plugs. This means that it can be integrated via a communication and power supply unit (see "Accessories") in the control and monitoring systems (e.g. SBS control) or in bus networks (e.g. MP bus solutions). Connection plug



Accessories

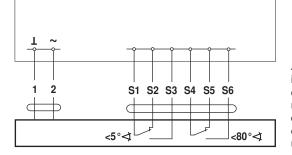
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	Description	Data sheet name
Electrical accessories	Thermoelectric tripping devices	BAE72
		BAE72-F-ST
	Thermoelectric tripping devices with test button	BAE72-S
		BAE72-S-F-ST
	Auxiliary switch, 2 x SPDT, 6 A (2.5 A), AC 250 V	SN2-C7
	Cable set with plug, $L = 0.5$ m for BF and BLF on communication and power supply units	ZST-BS
	Communication and power supply unit for integration in SBS control networks	BKN230-24
	Communication and power supply unit for integration in SBS control and	BKN230-24-C-
	MP bus networks	MP
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
	Adapter 12/11 mm for BF and BLF	ZA11-BF
	Bracket for SN2-C7 auxiliary switch for BF and BR	ZSN-BF



Electrical installation

Wiring diagrams

Connection by means of plug at communication and power supply units



Application examples for integration into monitoring and control systems or into bus networks can be found in the documentation of the connected communication and power supply unit (see "Accessories").

Dimensions [mm]

