

Spring return actuator, combined with thermo-electric tripping device (72°C), for fire and smoke dampers 90° in ventilation and air-conditioning systems

- Torque 18/12 Nm
- Nominal voltage AC/DC 24 V
- Control: Open-close
- Damper rotation: 12 mm form-fit



Technical data sheet

Technical Data

Electrical data	Nominal voltage	AC 24 V, 50/60 Hz / DC 24 V
	Nominal voltage range	AC 19.2 28.8 V / DC 21.6 28.8 V
	Power consumption Motoring	7 W @ nominal torgue
	Holding	2 W
	For wire sizing	10 VA / Imax. 8.3 A @ 5 ms
	Auxiliary switch	2 x SPDT
	Contact rating (contacts gold plate on silver)	1 mA 6 A (3 A), DC 5 V AC 250 V 🗆
	Switching points	5°∢/80°∢
	Thermal trips	Tf1: duct outside temperature 72°C Tf2 + Tf3: duct inside temperature 72°C
	Connecting Motor	Cable, 1 m, 2 x 0.75 mm ² (halogen-free)
	Auxiliary switch	Cable, 1 m, 6 x 0.75 mm ² (halogen-free)
Functional data	Torque Motor	Min. 18 Nm
	Spring return	Min. 12 Nm
	Direction of rotation	Selected by mounting L / R
	Angle of rotation	Max. 95°∢ (incl. 5°∢ spring pretensioning)
	Running time Motor	140 s
	Spring return	~16 s (t _{amb} = 20°C)
	Sound power level Motor	Max. 45 dB (A)
	Spring return	~62 dB (A)
	Damper rotation	Form-fit 12 mm
		(10 mm with adapter supplied)
	Position indication	Mechanical with pointer
	Service life	Min. 60'000 safe positions
Safety	Protection class	III Safety extra-low voltage
	Degree of protection	IP54 in all mounting positions
	EMC	CE according to 2004/108/EC
	Low voltage directive	CE according to 2006/95/EC
	Mode of operation	Type 1.AA.B (EN60730-1)
	Rated impulse voltage	0.8 kV (EN60730-1)
	Control pollution degree	3 (EN60730-1)
	Ambient temperature Normal duty	-30 +50 °C
	Safety duty	The safe position will be attained up to max. 75°C
	Non-operating temperature	-40 +50 ° C
	Ambient humidity	95% r.H., non-condensating (EN 60730-1)
	Maintenance	Maintenance-free
Dimensions / weight	Dimensions	See «Dimensions» on page 3
	Weight	Approx. 2.8 kg

BF24-T

Spring return actuator 90 ° \sphericalangle , AC/DC 24 V, 18/12 Nm, with thermo-electric tripping device



Safety notes				
	 The actuator is not allowed to be used outside the specified field aircraft or in any other airborne means of transport. The actuator is adapted and mounted to the fire and smoke damp turer. For this reason, the actuator is only supplied direct to safety. The manufacturer then bears full responsibility for the proper fun. The device may only be opened at the manufacturer's site. It does can be replaced or repaired by the user. The device contains electronic and electrical components and ma the household waste. Observe local regulations and valid laws. 	er by the damper manufac- y damper manufacturers. ctioning of the damper. s not contain any parts that		
Product features				
Mode of operation	at the same time. If the power supply is interrupted, the energy store damper back to its safe position.			
Thermo-electric tripping device BAE72B-S	Thermal trip Tf1 operates if the ambient temperature exceeds 72°C. Replaceable thermal trip Tf2/Tf3 operates if the temperature inside the duct exceeds 72°C. Tf1, Tf2 or Tf3 trips cause the power supply to be interrupted permanently so that it cannot l			
Note The function of the thermal trip and the test switch is only warranted if the actuator is connected to the power supply and has reached its operating position.	uncancelled. The LED is lit when – there is a supply voltage, – the temperature fuses are OK and – the test switch is not pressed.			
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 fixed in any required position. Release of the locking mechanism can be achieved manually or automatically by applying the supply voltage.			
Accessories				
	Description	Туре		
Electrical accessories	Auxiliary switch, 1 x SPDT 6 A (2.5 A), AC 250 V	SN1		
	Auxiliary switch, 2 x SPDT 6 A (2.5 A), AC 250 V	SN2		
	Cable set with plug (L = 0.5 m) for BF and BLF on communication and power supply units	ZST-BS		
	Blanking cover (without canal sensor function)	ZBAE0		
	Spare thermoelectric tripping device Duct inside temperature 72°C	ZBAE72		
	Spare thermoelectric tripping device Duct inside temperature 95°C, colour green	ZBAE95		
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 SN1 and SN2 auxiliary switches for BF	ZSN-BF		

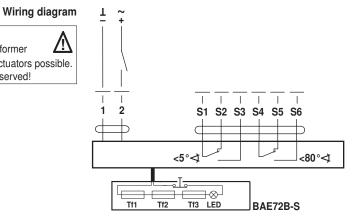
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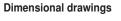
Electrical installation

Note

- Supply via safety isolation transformer
- Parallel connection of several actuators possible.
- Power consumption must be observed!



Dimensions [mm]



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