

Spring-return actuator, combined with thermoelectric tripping device (72 °C), for fire and smoke dampers 180° in ventilation and air-conditioning systems.

- Nominal torque 11 Nm / 8.5 Nm
- Nominal voltage AC 230 V
- Control open-close
- Damper rotation form fit 10 mm


**Technical data**

<b>Electrical data</b>	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 198 V ... 264 V
	Power consumption in operation	9.5 W
	Power consumption at rest	3.5 W
	Power consumption for wire sizing	11 VA
	Power consumption for wire sizing note	I <sub>max</sub> 0.5 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	25° / 145° (5° / 80° relating to damper angle of rotation)
	Connection supply	Cable 1 m, 2 x 0.75 mm <sup>2</sup> (halogen-free)
	Connection auxiliary switch	Cable 1 m, 6 x 0.75 mm <sup>2</sup> (halogen-free)
	Cable length thermoelectric tripping device	1 m
	<b>Functional data</b>	Torque motor
Torque spring-return		Min. 8.5 Nm
Direction of rotation motor		Can be selected by mounting L / R
Angle of rotation		Max. 180°
Running time motor		<120 s / 180°
Running time spring-return		~20 s (t <sub>amb</sub> = 20 °C)
Sound power level motor max.		45 dB (A)
Sound power level spring-return max.		63 dB (A)
Damper rotation		Form fit 10 mm
Position indication		Mechanically, with pointer
Service life		Min. 50,000 safety positions
<b>Safety</b>		Response temperature thermal fuse
	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
	Non-operating temperature	-40 °C ... 50 °C
	Ambient humidity	95% r.h., non-condensing
	Maintenance	Maintenance-free
<b>Weight</b>	Weight approx.	3.1 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

<b>Mode of operation</b>	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.
<b>Thermoelectric tripping device</b>	If the ambient temperature of 72°C is exceeded, the thermal fuse Tf1 responds. If the duct inside temperature of 72°C is exceeded, the exchangeable thermal fuse Tf2/Tf3 will respond. When the thermal fuses Tf1, Tf2 or Tf3 respond, the supply voltage is interrupted permanently and irreversibly. The LED is lit when <ul style="list-style-type: none"> <li>– there is a supply voltage,</li> <li>– the temperature fuses are OK and</li> <li>– the test switch is not pressed.</li> </ul> Blind cover (has no duct sensor function)
<b>Signalling</b>	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.
<b>Manual operation</b>	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

	Description	Data sheet name
<b>Electrical accessories</b>	Blanking cover (has no duct sensor function) for BAE..	ZBAE0
	Spare thermoelectric tripping device for BAE..., duct inside temperature 72°C	ZBAE72
	Spare thermoelectric tripping device for BAE..., duct inside temperature 95°C, colour green	ZBAE95

## Electrical installation



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| <b>Notes</b> | <ul style="list-style-type: none"> <li>• Caution: Power supply voltage!</li> <li>• Parallel connection of other actuators possible. Note the performance data.</li> </ul> |
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