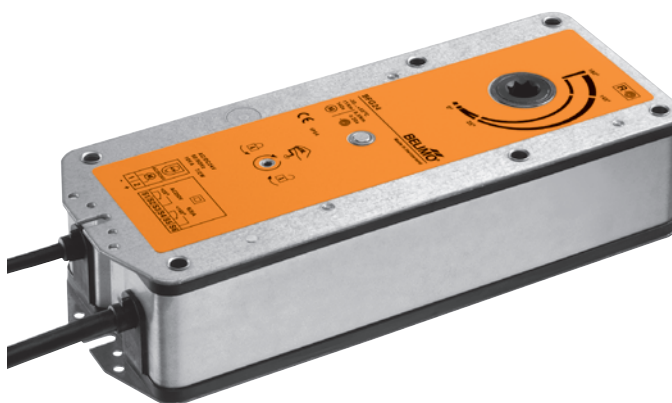


Spring return actuator for fire and smoke dampers 180°↔ in ventilation and air-conditioning systems, integrated via communication and power supply units into monitoring and control systems or bus networks

- Torque 11/8.5 Nm
- Nominal voltage AC/DC 24 V
- Control: Open-close
- Damper rotation: 10 mm form-fit



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 torque	
		Holding	2 W	
		For wire sizing	10 VA / I _{max} . 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	25°↔ / 145°↔ (angles of rotation of damper: 5°↔ / 80°↔)		
	Connecting	Motor	Cable, 1 m, 2 x 0.75 mm ² (halogen-free) with plug three-core, suitable for communication and power supply units (see «Accessories»)	
		Auxiliary switch	Cable, 1 m, 6 x 0.75 mm ² (halogen-free) with plug six-core, suitable for communication and power supply units (see «Accessories»)	
Functional data	Torque	Motor	Min. 11 Nm	
		Spring return	Min. 8.5 Nm	
	Direction of rotation	Selected by mounting L / R		
	Angle of rotation	Max. 180°↔		
	Running time	Motor	140 s	
		Spring return	~20 s (t _{amb} = 20 °C)	
	Sound power level	Motor	Max. 45 dB (A)	
		Spring return	~62 dB (A)	
	Damper rotation	Form-fit 10 mm		
	Position indication	Mechanical with pointer		
Service life	Min. 50'000 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 when initiated by a thermal trip	
	Non-operating temperature	-40 ... +80 °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		

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.
- 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 electronic and electrical components and may not be disposed of with the household waste. Observe local regulations and valid laws.

Product features

- Mode of operation** The actuator moves the damper to its normal working position while tensioning the return spring at the same time. If the power supply is interrupted, the energy stored in the spring moves the damper back to its safe position.
- 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.
- Connections** The actuator is fitted with plugs. In this way, it can be connected via a communication and power supply unit (see «Accessories») into control and monitoring systems (e. g. SBS-Control) or in bus networks (e. g. MP-Bus or Ringbus Solutions).

Plug connectors



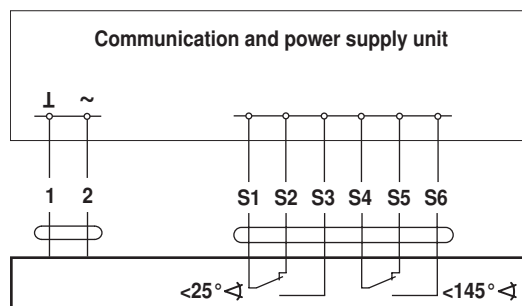
Accessories

	Description	Type
Electrical accessories	Thermoelectric tripping device	BAE72 (-F-ST)
	Thermoelectric tripping device with test button	BAE72-S (-F-ST)
Communication and power supply units	Cable set with plug (L = 0.5 m) for BF.. and BLF.. on communication and power supply units	ZST-BS
	For integration in the SBS-Control control system	BKN230-24
	For integration in the SBS-Control control system and MP-Bus networks	BKN230-24-C-MP
	For integration in Ringbus solutions (single module)	RBFU 1.01 ST
	For integration in Ringbus solutions (double module)	RBFU 1.05 ST

Electrical installation

Wiring with a plug connection to a communication and power supply unit

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



Dimensions [mm]

Dimensional drawings

