

Actuator for
smoke control dampers 90°↔

- Torque 15 Nm
- Nominal voltage AC/DC 24 V
- Control: Open/close
- Damper rotation: 12 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	
	Switching thresholds	min. ON voltage	AC 19.2 V / DC 21.6 V
		max. OFF voltage	AC 6.5 V / DC 6.5 V
	Power consumption	motoring	7.5 W @ nominal torque
		holding	<0.5 W
		for wire sizing	9 VA / I _{max.} 2.7 A @ 5 ms
	Auxiliary switch	2 x SPDT	
	Contact rating (contacts gold plate on silver)	1 mA ... 3 A, DC 5 V ... AC 250 V ☐	
	Switching points	3°↔ / 87°↔ (referred to 0 ... 90°↔)	
Tolerance	±2°↔		
Connecting cable	motor	1 m, 3 x 0.75 mm ² (halogen-free)	
	auxiliary switch	1 m, 6 x 0.75 mm ² (halogen-free)	
Functional data	Torque (nominal torque)	Min. 15 Nm @ nominal voltage	
	Blocking torque	dynamic	Min. 15 Nm
		steady-state	Min. 20 Nm
	Direction of rotation	Selected by mounting L/R	
	Angle of rotation	Max. 105°↔ (incl. mechanical overrun on each side)	
	Running time	<30 s for 90°↔	
	Sound power level	Max. 62 dB (A)	
	Damper rotation	Form-fit 12 mm	
	Position indication	Mechanical with pointer	
	Service life	At least 10'000 cycles	
Safety	Protection class	III Safety extra-low voltage	
	Degree of protection	IP54 in all mounting positions	
	EMC	CE according to 89/336/EEC, 92/31/EEC, 93/68/EEC	
	Low voltage directive	CE according to 2006/95/EC	
	Mode of operation	Type 1.B (according to EN60730-1)	
	Rated impulse voltage	0.8 kV (according to EN60730-1)	
	Control pollution degree	3 (according to EN60730-1)	
	Ambient temperature range	normal duty	-30 ... +50 °C
		safety duty	See «Safety function» on page 2
	Non-operating temperature	-40 ... +80 °C	
Ambient humidity range	95% r.H., non-condensating (EN 60730-1)		
Maintenance	Maintenance-free		
Dimensions / weight	Dimensions	See «Dimensions» on page 3	
	Weight	Approx. 1'680 g	

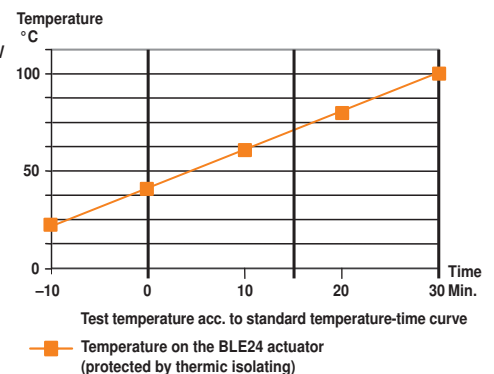
Safety notes



- 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 smoke control 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 actuator 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	2-wire open-close control. The actuator is overload-proof and can thus remain energised even at the end stops.
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	The crank handle supplied with the actuator allows it to be operated manually.
Standards and specifications	The design of the actuator is based on the following standards and specifications: <ul style="list-style-type: none"> • Draft DIN 18232, Part 6, Sept. 1992 <ul style="list-style-type: none"> – Fire protection in industrial buildings – Smoke and heat extraction systems • Preliminary standard ÖNORM H 6029, May 1997 <ul style="list-style-type: none"> – Ventilation systems – Fire smoke extraction systems • Extracts from: <ul style="list-style-type: none"> – prEN1366-10 (Fire resistance tests for service installations – Part 10: Smoke control dampers) – prEN12101-8 (Smoke and heat control systems – Part 8: Specification for smoke control dampers)
Safety function	The safety function is guaranteed within the temperature range shown in the diagram below which is based on standard ÖNORM H 6029 and DIN 18232.

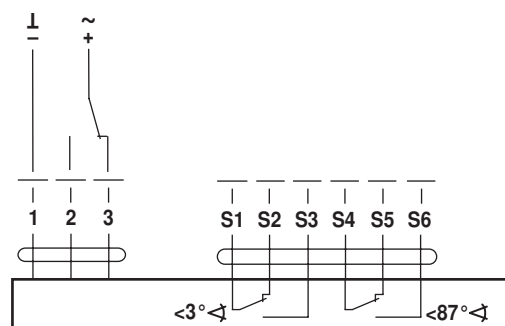


Electrical installation

Wiring diagram

Note

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



Dimensions [mm]

Dimensional diagrams

