

Actuator for smoke control dampers 90°

- Torque motor 25 Nm
- Nominal voltage AC 230 V
- Control Open/close
- Mechanical interface Form fit 12x12 mm, continuous hollow shaft



Technical data

Electrical data	Nominal voltage	AC 230 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 198...264 V
	Switching thresholds min. ON voltage	AC 198 V
	Switching thresholds max. OFF voltage	AC 50 V
	Power consumption in operation	3.5 W
	Power consumption in rest position	0.4 W
	Power consumption for wire sizing	6 VA
	Power consumption for wire sizing note	$I_{max} 4 A @ 5 ms$
	Auxiliary switch	2 x SPDT
	Switching capacity auxiliary switch	1 mA...3 A (0.5 A inductive), AC 250 V
	Switching points auxiliary switch	5° / 80°
	Tolerance	±3°
Connection supply / control	Cable 1 m, 3 x 0.75 mm ² , halogen-free	
Connection auxiliary switch	Cable 1 m, 6 x 0.75 mm ² , halogen-free	
Functional data	Torque motor	25 Nm
	Direction of motion motor	selectable by mounting
	Manual override	with hand crank
	Angle of rotation	Max. 95°
	Running time motor	<60 s / 90°
	Sound power level, motor	58 dB(A)
	Mechanical interface	Form fit 12x12 mm, continuous hollow shaft
	Position indication	Mechanically, with pointer
Service life	Min. 10'000 cycles	
Safety data	Protection class IEC/EN	II reinforced insulation
	Protection class auxiliary switch IEC/EN	II reinforced insulation
	Degree of protection IEC/EN	IP54
	EMC	CE according to 2014/30/EU
	Low voltage directive	CE according to 2014/35/EU
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Mode of operation	Type 1.B
	Rated impulse voltage supply / control	4 kV
	Rated impulse voltage auxiliary switch	4 kV
	Control pollution degree	3
	Ambient temperature	-30...55°C
	Storage temperature	-40...80°C
	Ambient humidity	Max. 95% r.H., non-condensing
Servicing	maintenance-free	
Weight	Weight	1.1 kg

Safety notes



- The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
- Caution: Power supply voltage!
- The actuator is adapted to and installed on 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 two switches integrated in the actuator are to be operated either on power supply voltage or at safety extra-low voltage. The combination power supply voltage/safety extra-low voltage is not permitted.
- Cables must not be removed from the device.
- 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 must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

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.
Safety Position Lock	The Safety Position Lock™ reliably holds the smoke control damper in the defined safety position in case of fire, thus ensuring maximum safety.
Signalling	Two microswitches with fixed settings are installed in the actuator for indicating the damper end positions. It should be noted with this application however that the contacts can no longer be used in the milliampere range after larger currents have been applied to them, even if this has taken place only once. The position of the damper blade can be read off on a mechanical position indication.
Manual operation	The hand crank included in the shipment can be used for manual operation of the actuator.
Standards / Regulations	The design of the actuator is based on the specific requirements from the European standards: <ul style="list-style-type: none"> • EN 12101-8: Smoke and heat control systems - Part 8: Smoke control dampers • EN 1366-10: Fire resistance tests for service installations - Part 10: Smoke control dampers • EN 13501-4: Fire classification of construction products and building elements - Part 4: Classification using data from fire resistance tests on components of smoke control systems
Delivery notes	Incl. Hand crank, Pointer, Protective bag

Electrical installation



Caution: Power supply voltage!

Parallel connection of other actuators possible. Observe the performance data and the switching thresholds.

Combination of power supply voltage and safety extra-low voltage not permitted at the both auxiliary switches.

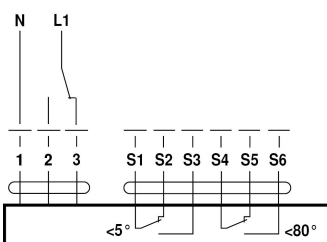
Wiring diagrams

AC 230 V, open/close

Cable colours:

- 1 = blue
- 2 = brown
- 3 = white

- S1 = violet
- S2 = red
- S3 = white
- S4 = orange
- S5 = pink
- S6 = grey



Dimensions

Dimensional drawings

