

Technical data sheet

Actuator for smoke control dampers 90°

- Torque motor 25 Nm
- Nominal voltage AC/DC 24 V
- Control Open/close
- Mechanical interface Form fit 12x12 mm, continuous hollow shaft



Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Switching thresholds min. ON voltage	AC 19.2 V / DC 21.6 V
	Switching thresholds max. OFF voltage	AC 5 V / DC 7 V
	Power consumption in operation	2.5 W
	Power consumption in rest position	0.1 W
	Power consumption for wire sizing	5 VA
	Power consumption for wire sizing note	Imax 8.2 A @ 5 ms
	Auxiliary switch	2x SPDT
	Switching capacity auxiliary switch	1 mA3 A (0.5 A inductive), DC 5 VAC 250 V
	Switching points auxiliary switch	5° / 80°
	Tolerance	±3°
	Connection supply / control	Cable 1 m, 3x 0.75 mm², halogen-free
	Connection auxiliary switch	Cable 1 m, 6x 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	Mechanical, with pointer
	Service life	Min. 10'000 cycles
Safety data	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)
	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
	Type of action	Type 1.B
	Rated impulse voltage supply / control	0.8 kV
	Rated impulse voltage auxiliary switch	4 kV
	Pollution degree	3
	Ambient humidity	Max. 95% RH, non-condensing



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Safety data	Ambient temperature -30	055°C [-22131°F]	
		080°C [-40176°F]	
	Servicing ma	aintenance-free	
Weight	Weight 1.0) kg	
g			
Color notes			
Safety notes			
	 The device must not be used outside the specifie aircraft or in any other airborne means of transp The actuator is adapted to and installed on the simanufacturer. For this reason, the actuator is on manufacturers. The manufacturer then bears full the damper. The two switches integrated in the actuator are to voltage or at safety extra-low voltage. The combined works is not permitted. Cables must not be removed from the device. The device may only be opened at the manufacture can be replaced or repaired by the user. The device contains electrical and electronic combined by the user of the device. 	ort. moke control damper by the damper ily supplied direct to safety damper il responsibility for the proper functioning of to be operated either on power supply ination power supply voltage/safety extra- urer's site. It does not contain any parts that aponents and must not be disposed of as	
Product features	$\Gamma \Gamma$,		
Operating mode Safety Position Lock™	2-wire open/close control. The actuator is overload-proof and can thus remain energised even at the end stops. The Safety Position Lock™ reliably holds the smoke control damper in the defined safety position in case of fire, thus ensuring maximum safety.		
Manual override			
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 o	on a mechanical position indication.	
Standards / Regulations	The design of the actuator is based on the specific requirements from the European standards:		
	• EN 12101-8: Smoke and heat control systems - Pa	art 8: Smoke control dampers	
	• EN 1366-10: Fire resistance tests for service insta	•	
	• EN 13501-4: Fire classification of construction pro Classification using data from fire resistance tests	-	
Parts included			
	Hand crank Pointer Protective bag		
Accessories			
Electrical accessories	Description	Туре	
	Cable set with plug 0.5 m for communication and		
	Auxiliary switch 2x SPDT	SN2-C7	



Accessories			
Mechanie	cal accessories	Description	Туре
		Pointer 12x12 mm	ZZN12-B
		Hand crank 40 mm	ZKN1-B
		Hand crank 63 mm	ZKN2-B
		Protective bag with wire, Multipack 100 pcs.	ZSD-B.1
		Bracket for SN2-C7 for BFN/BFL, BEN/BEE	ZSN-B
Electrical installation			
	^	Supply from isolating transformer.	
		Parallel connection of other actuators possible. Observe the	performance data and the
	<u>/•</u> \	switching thresholds.	F
		Combination of power supply voltage and safety extra-low v	oltage not permitted at the both
		auxiliary switches.	onage not permitted at the both
Wire colours:			
1 = black			
2 = red			
3 = white			
S1 = violet			
S2 = red			
S3 = white			
S4 = orange			
S5 = pink			
S6 = grey			
Wiring diagrams			
AC/DC 24 V, open/close	Auxiliary sv	vitch	
⊥ ~			
	1 1		
1 2 2	S1 S2	S3 S4 S5 S6	
	<5°		
		vitch S3 S4 S5 S6 	



Dimensions



