

# **Technical data sheet**

## Actuator for smoke control dampers 90°

- Torque motor 15 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	3 W
	Power consumption in rest position	0.1 W
	Power consumption for wire sizing	6 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 mm², halogen-free
Functional data	Torque motor	15 Nm
	Direction of motion motor	selectable by mounting
	Manual override	with hand crank
	Angle of rotation	Max. 95°
	Running time motor	<30 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	Туре 1.В
	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	-3055°C [-22131°F]
	Sarcty data	Storage temperature	-4080°C [-40176°F]
		Servicing	maintenance-free
	Weight		
	Weight	Weight	0.86 kg
Safety notes			
	Ŵ	<ul> <li>aircraft or in any other airborn</li> <li>The actuator is adapted to and manufacturer. For this reason, manufacturers. The manufacturets the damper.</li> <li>The two switches integrated in voltage or at safety extra-low v low voltage is not permitted.</li> <li>Cables must not be removed fit</li> <li>The device may only be openetic can be replaced or repaired by</li> <li>The device contains electrical at</li> </ul>	installed on the smoke control damper by the damper the actuator is only supplied direct to safety damper arer then bears full responsibility for the proper functioning the actuator are to be operated either on power supply roltage. The combination power supply voltage/safety extra- rom the device. d at the manufacturer's site. It does not contain any parts th
Product features			
	Operating mode	2-wire open/close control. The a at the end stops.	ctuator is overload-proof and can thus remain energised ev
	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.	
	Manual override	The hand crank included in the s	hipment can be used for manual operation of the actuator.
	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.	
	Standards / Regulations	The design of the actuator is bas	e can be read off on a mechanical position indication. sed on the specific requirements from the European
		standards:	
			ontrol systems - Part 8: Smoke control dampers
		• EN 13501-4: Fire classification of	ts for service installations - Part 10: Smoke control dampers of construction products and building elements - Part 4: re resistance tests on components of smoke control systems
Parts included			
		Hand crank Pointer Protective bag	
Accessories			
	Electrical accessories	Description	Туре

nes	Description	туре	
	Cable set with plug 0.5 m for communication and power supply unit	ZST-BS	
	Auxiliary switch 2x SPDT	SN2-C7	



Accessories						
Mechanical accessorie	s 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 switching thresholds.

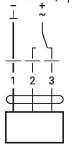
Combination of power supply voltage and safety extra-low voltage not permitted at the both auxiliary switches.

#### Wire colours:

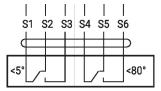
- 1 = black
- 2 = red
- 3 = white S1 = violet
- S2 = red
- S3 = white
- S4 = orange
- S5 = pink
- S6 = grey

#### Wiring diagrams

## AC/DC 24 V, open/close



Auxiliary switch





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