

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	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



Technical data		
Safety data	Ambient temperature -3	055°C [-22131°F]
	Storage temperature -4	080°C [-40176°F]
	Servicing m	aintenance-free
Weight	Weight 0.	86 kg
Safety notes		
Ĺ	 The device must not be used outside the specifial aircraft or in any other airborne means of transpector. The actuator is adapted to and installed on the semanufacturer. For this reason, the actuator is of manufacturers. The manufacturer then bears furthe damper. The two switches integrated in the actuator are voltage or at safety extra-low voltage. The combound low voltage is not permitted. Cables must not be removed from the device. The device may only be opened at the manufact can be replaced or repaired by the user. The device contains electrical and electronic combousehold refuse. All locally valid regulations are safety extra-low valid regulations are safety extra-low valid regulations. 	port. smoke control damper by the damper nly supplied direct to safety damper ill responsibility for the proper functioning to be operated either on power supply bination power supply voltage/safety extra turer's site. It does not contain any parts th mponents and must not be disposed of as
Product features		
Operating mode	2-wire open/close control. The actuator is overloa at the end stops.	ad-proof and can thus remain energised ev
Safety Position Lock™	The Safety Position Lock™ reliably holds the smok position in case of fire, thus ensuring maximum s	
Manual override	The hand crank included in the shipment can be u	used for manual operation of the actuator.
Signalling	Two microswitches with fixed settings are installe end positions. It should be noted with this applica longer be used in the milliampere range after lar even if this has taken place only once.	ation however that the contacts can no
	The position of the damper blade can be read off	on a mechanical position indication.
Standards / Regulations	tandards / Regulations The design of the actuator is based on the specific requirements from the European standards:	
	• EN 12101-8: Smoke and heat control systems - F	Part 8: Smoke control dampers
	• EN 1366-10: Fire resistance tests for service inst	allations - Part 10: Smoke control dampers
	• EN 13501-4: Fire classification of construction pr 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	power supply unit ZST-BS SN2-C7



escription ointer 12x12 mm and crank 40 mm	Type ZZN12-B
and scank 10 mm	7/01/0
and Crank 40 mm	ZKN1-B
and crank 63 mm	ZKN2-B
rotective bag with wire, Multipack 100 pcs.	ZSD-B.1
racket for SN2-C7 for BFN/BFL, BEN/BEE	ZSN-B
r	otective bag with wire, Multipack 100 pcs.

Electrical installation



Supply from isolating transformer.

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

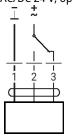
Combination of power supply voltage and safety extra-low voltage not permitted at the both auxiliary switches.

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

