

Technical data sheet

Rotary actuator fail-safe for adjusting dampers in technical building installations

- Air damper size up to approx. 0.8 m²
- Torque motor 4 Nm
- Nominal voltage AC/DC 24 V
- Control Open/close
- PWIS/LABS-compliant according to VDMA 24364



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
	Power consumption in operation	5 W
	Power consumption in rest position	2.5 W
	Power consumption for wire sizing	7 VA
	Power consumption for wire sizing note	Imax 5.8 A @ 5 ms
	Connection supply / control	Cable 1 m, 2x 0.75 mm ²
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	4 Nm
	Torque fail-safe	4 Nm
	Direction of motion motor	selectable by mounting L/R
	Direction of motion fail-safe	selectable by mounting L/R
	Manual override	No
	Angle of rotation	Max. 95°
	Angle of rotation note	Adjustable 37100% with integrated mechanical limitation
	Running time motor	75 s / 90°
	Running time fail-safe	<20 s @ -2050°C / <60 s @ -30°C
	Sound power level, motor	50 dB(A)
	Mechanical interface	Universal shaft clamp 816 mm
	Position indication	Mechanical
	Service life	Min. 60'000 fail-safe positions
Safety data	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)
	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
	PWIS/LABS-conformity	According to VDMA 24364 (test class C1) Approved for use in zone II Cleaning with low-pressure plasma treatment
	Hygiene test	According to VDI 6022 Part 1 / SWKI VA 104-01, cleanable and disinfectable, low emission
	Type of action	Туре 1.В
	Rated impulse voltage supply / control	0.8 kV



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Safety data	Pollution degree	3
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-3050°C [-22122°F]
	Storage temperature	-1040°C [14104°F]
	Servicing	maintenance-free
Weight	Weight	1.4 kg

Safety notes

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	 This device has been designed for use in stationary heating, ventilations systems and must not be used outside the specified field of application or in any other airborne means of transport. Outdoor application: only possible in case that no (sea) water, snow, aggressive gases interfere directly with the device and that it is ensure conditions remain within the thresholds according to the data sheet of 0 nly authorised specialists may carry out installation. All applicable to installation regulations must be complied with during installation. The device may only be opened at the manufacturer's site. It does not can be replaced or repaired by the user. Cables must not be removed from the device. To calculate the torque required, the specifications supplied by the d concerning the cross-section and the design, as well as the installation ventilation conditions must be observed. The device contains electrical and electronic components and must n household refuse. All locally valid regulations and requirements must purchase-compliant packaging has been opened, the proper handling of responsibility of the customer. PWIS/LABS-conformity of unopened provided they are handled provided they are handled provided they are handled provided they regulation of a product caused by the customer. 	on, especially in aircra ice, insolation or red that the ambient at any time. egal or institutional t contain any parts th amper manufacturers n situation and the ot be disposed of as t be observed. pened. Once the PWI the products is the roducts is guaranteed operly, professionally esponsibility of the intained. Do not touc
Product features		
Operating mode	The actuator moves the damper to the operating position at the same return spring. The damper is turned back to the safety position by spri supply voltage is interrupted.	
Simple direct mounting	Simple direct mounting on the damper shaft with a universal shaft clamp, supplied with an anti-rotation device to prevent the actuator from rotating.	
Adjustable angle of rotation Adjustable angle of rotation with mechanical end stops.		
Accessories		
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Electrical accessories	Description	Type
Electrical accessories	Description Auxiliary switch 2x SPDT	Type S2A-F
Electrical accessories	•	
Electrical accessories Mechanical accessories	Auxiliary switch 2x SPDT	S2A-F
	Auxiliary switch 2x SPDT Feedback potentiometer 1 kΩ Description Shaft extension 170 mm ø10 mm for damper shaft ø616 mm	S2A-F P1000A-F Type AV6-20
	Auxiliary switch 2x SPDT Feedback potentiometer 1 k Ω Description Shaft extension 170 mm ø10 mm for damper shaft ø616 mm Shaft clamp reversible, clamping range ø1620 mm	S2A-F P1000A-F Type AV6-20 K6-1
	Auxiliary switch 2x SPDT Feedback potentiometer 1 kΩ Description Shaft extension 170 mm ø10 mm for damper shaft ø616 mm	S2A-F P1000A-F Type AV6-20



Description	Туре
Actuator arm, clamping range ø816 mm, Slot width 8.2 mm	KH-LF
Angle of rotation limiter, with end stop	ZDB-LF
Form fit adapter 8x8 mm	ZF8-LF
Mounting kit for linkage operation for flat installation	ZG-LF1
Mounting kit for linkage operation for side installation Slot width 6.2 mm	ZG-LF3
Anti-rotation mechanism 180 mm, Multipack 20 pcs.	Z-ARS180L

Parallel connection of other actuators possible. Observe the performance data.

Electrical installation



Supply from isolating transformer.

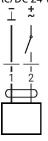
Wire colours:

1 = black

2 = red

Wiring diagrams

AC/DC 24 V, open/close



Dimensions

Spindle length

	Min. 84
	Min. 20 mm [0.75"]

Clamping range

O I	
816	816

