

Technical data sheet

Linear actuator for adjusting dampers and slide valves in technical building installations

- Air damper size up to approx. 1 m²
- Actuating force 150 N
- Nominal voltage AC 230 V
- Control Open-close, 3-point
- Length of Stroke Max. 200 mm, adjustable in 20 mm increments



Technical data

Electrical data	Nominal voltage	AC 230 V			
	Nominal voltage frequency	50/60 Hz			
	Nominal voltage range	AC 85265 V			
	Power consumption in operation	1.5 W			
	Power consumption in rest position	1 W			
	Power consumption for wire sizing	5 VA			
	Connection supply / control	Cable 1 m, 3 x 0.75 mm ²			
	Parallel operation	Yes (note the performance data)			
Functional data	Actuating force motor	Min. 150 N			
	Direction of motion motor	Selectable with switch 0 (extended) / 1 (retracted)			
	Manual override	Gear disengagement with push-button, can be locked			
	Length of Stroke	Max. 200 mm, adjustable in 20 mm increments			
	Stroke limitation	can be limited on both sides with mechanical end stops			
	Running time motor	150 s / 100 mm			
	Sound power level motor	45 dB(A)			
Safety	Protection class IEC/EN	II Protective insulated			
	Protection class UL	II Protective insulated			
	Degree of protection IEC/EN	IP54			
	Degree of protection NEMA/UL	NEMA 2, UL Enclosure Type 2			
	EMC	CE according to 2004/108/EC			
	Low voltage directive	CE according to 2006/95/EC			
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14			
	Certification UL	cULus according to UL 60730-1A, UL 60730-2-			
		14 and CAN/CSA E60730-1:02			
	Mode of operation	Туре 1			
	Rated impulse voltage supply / control	4 kV			
	Control pollution degree	3			
	Ambient temperature	-3050°C			
	Non-operating temperature	-4080°C			
	Ambient humidity	95% r.h., non-condensing			
	Maintenance	Maintenance-free			
Weight	Weight	0.54 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.
- Outdoor application: only possible in case that no (sea)water, snow, ice, insolation
 or aggressive gases interfere directly with the actuator and that is ensured that the
 ambient conditions remain at any time within the thresholds according to the data
 sheet.
- · Caution: Power supply voltage!
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.



 The device may only be opened at the manufacture parts that can be replaced or repaired by the user. The rotary supports and coupling pieces available a used if transverse forces are likely. In addition, the to the application. It must remain movable via the ronotes»). If the actuator is exposed to severely contaminated precautions must be taken on the system side. Exc can prevent the gear rod from being extended and If not installed horizontally, the gear disengagemen actuated when there is no pressure on the gear rod. To calculate the actuating force required for air dam specifications supplied by the damper manufacture the design, the installation site and the ventilation c If a rotary support and/or coupling piece is used, ac expected. The device contains electrical and electronic comport of as household refuse. All locally valid regulations observed. 	as accessories must always be actuator must not be tightly bolted otary support (refer to «Assembly ambient air, appropriate ressive deposits of dust, soot etc. retracted correctly. It pushbutton may only be t. npers and slide valves, the rs concerning the cross section, conditions must be observed. ctuation force losses are to be conents and must not be disposed
The actuator can be directly connected with the applic The head of the gear rod is connected to the moving individually on the mounting side or with the Z-KS2 co	part of the ventilating application
Manual override with push-button possible (the gear i button is pressed or remains locked).	s disengaged for as long as the
If a stroke limitation will be adjusted, the mechanical of the gear rod can be used starting with an extension le limited respectively in increments of 20 mm by means	ength of 20 mm and then can be
The actuator is overload protected, requires no limit s when the end stop is reached.	witches and automatically stops
	witches and automatically stops
	witches and automatically stops
	 parts that can be replaced or repaired by the user. The rotary supports and coupling pieces available a used if transverse forces are likely. In addition, the to the application. It must remain movable via the renotes»). If the actuator is exposed to severely contaminated precautions must be taken on the system side. Excercise are prevent the gear rod from being extended and If not installed horizontally, the gear disengagement actuated when there is no pressure on the gear rod? To calculate the actuating force required for air dam specifications supplied by the damper manufacture the design, the installation site and the ventilation of If a rotary support and/or coupling piece is used, and expected. The device contains electrical and electronic comport of as household refuse. All locally valid regulations observed.

Rotary support for compensation of transverse forces

Coupling piece M6 for LH, galvanised steel

Z-DS1

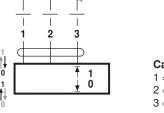
Z-KS2



Electrical installation

Notes · Caution: Power supply voltage! Parallel connection of other actuators possible. Observe the performance data. 1 Wiring diagrams AC 230 V, open-close AC 230 V, open-close, priority at connection 3 Ν Ν **∑**¦↓ Cable colours: Cable colours: ¥ × 1 0





1 = blue 2 = brown 3 = white

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AC 230 V, 3-point

Cable colours: 1 = blue 2 = brown 3 = white

Installation notes

Notes	 If a rotary support and/or coupling piece is used, losses in the actuation force losses are to be expected. 		
Applications without transverse force	The linear actuator is screwed directly to the housing at three points. Afterwards, the head of the gear rod is fastened to the moving part of the ventilation application (e.g. damper or slide valve).		
Applications with transverse forces	Connect the coupling piece with the internal thread (Z-KS2) to the head of the gear rod. Screw the rotary support (Z-DS1) to the ventilation application. Afterwards, the linear actuator is screwed to the previously mounted rotary support with the enclosed screw. Afterwards, the coupling piece, which is mounted to the head of the gear rod, is attached to the moving part of the ventilating application (e.g. damper or slide valve). The transverse forces can be compensated for to a certain limit with the rotary support and/or coupling piece. The maximum permissible swivel angle of the rotary support and coupling piece is 10°, laterally and upwards.		



Dimensions [mm]

Dimensional drawings

