

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/DC 24 V
- Control Open-close, 3-point
- Length of Stroke Max. 300 mm, adjustable in 20 mm increments



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 19.228.8 V
	Power consumption in operation	1.5 W
	Power consumption in rest position	0.5 W
	Power consumption for wire sizing	3 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. 300 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	III Safety extra-low voltage
	Protection class UL	UL Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2, UL Enclosure Type 2
	EMC	CE according to 2004/108/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	Type 1
	Rated impulse voltage supply / control	0.8 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	0.52 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.
 - 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 manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.



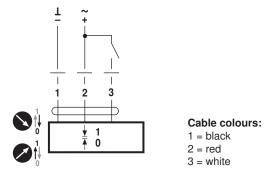
Safety notes				
	 The rotary supports and coupling pieces available as actused if transverse forces are likely. In addition, the actuat to the application. It must remain movable via the rotary notes»). If the actuator is exposed to severely contaminated amb precautions must be taken on the system side. Excessiv can prevent the gear rod from being extended and retracted. If not installed horizontally, the gear disengagement pus actuated when there is no pressure on the gear rod. To calculate the actuating force required for air dampers specifications supplied by the damper manufacturers conthe design, the installation site and the ventilation condit If a rotary support and/or coupling piece is used, actuated expected. The device contains electrical and electronic component of as household refuse. All locally valid regulations and robserved. 	ator must not be tightly bolted support (refer to «Assembly ient air, appropriate re deposits of dust, soot etc. cted correctly. hbutton may only be and slide valves, the ncerning the cross section, ions must be observed. on force losses are to be as and must not be disposed		
Product features				
Simple direct mounting	The actuator can be directly connected with the application using the enclosed screws. The head of the gear rod is connected to the moving part of the ventilating application individually on the mounting side or with the Z-KS2 coupling piece provided.			
Manual override	Manual override with push-button possible (the gear is disc button is pressed or remains locked).	engaged for as long as the		
Adjustable stroke	If a stroke limitation will be adjusted, the mechanical opera the gear rod can be used starting with an extension length limited respectively in increments of 20 mm by means of m	of 20 mm and then can be		
High functional reliability	High functional reliability The actuator is overload protected, requires no limit switches and automatically stop when the end stop is reached.			
Accessories				
	Description	Туре		
Mechanical accessories	End stop set for LH	Z-AS2		
	Rotary support for compensation of transverse forces	Z-DS1		
	Coupling piece M6 for LH, galvanised steel	Z-KS2		

Electrical installation

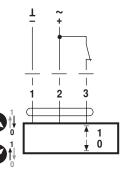
۲ ۱	lotes	 Connection via safety isolating transformer. Parallel connection of other actuators possible. Observe the performance data.
$\underline{\overline{1}}$		• Parallel connection of other actuators possible. Observe the performance data.

Wiring diagrams

AC/DC 24 V, open-close



Connection 3 takes priority



Cable colours: 1 = black 2 = red

3 = white



Electrical installation AC/DC 24 V, 3-point T Cable colours: 1 = black 0 2 = red3 = white Installation notes · If a rotary support and/or coupling piece is used, losses in the actuation force Notes 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

