

Technical data sheet

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

- Air damper size up to approx. 0.8 m²
- Actuating force 125 N
- Nominal voltage AC 230 V
- Length of Stroke Max. 100 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	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. 125 N
	Direction of motion motor	Selectable through contact assignment
	Manual override	Gear disengagement with magnet
	Length of Stroke	Max. 100 mm, adjustable in 20 mm increments
	Stroke limitation	can be limited on both sides with mechanical
		end stops
	Running time motor	380 s / 100 mm
	Sound power level motor	35 dB(A)
Safety	Protection class IEC/EN	II Protective insulated
	Degree of protection IEC/EN	IP54
	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
	Mode of operation	Type 1
	Rated impulse voltage supply / control	2.5 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	0.36 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 manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- · Cables must not be removed from the device.
- The rotary supports and coupling pieces are available as accessories and must always be used if transverse forces are likely. An additional installation sheet is required in accordance with the installation instructions. In addition, the actuator must not be tightly bolted to the application. It must remain movable via the rotary support (refer to "Assembly notes").



Safety notes		
	 If the actuator is exposed to severely contaminated amprecautions must be taken on the system side. Excess can prevent the gear rod from being extended and retrated in the actuator is not installed horizontally, the magnetomay only be actuated when there is no pressure on the To calculate the actuating force required for air damper specifications supplied by the damper manufacturers of the design, the installation site and the ventilation cond of a rotary support and/or coupling piece is used, actuate expected. The device contains electrical and electronic component of as household refuse. All locally valid regulations and observed. 	ive deposits of dust, soot etc. acted correctly. operated gear disengagement e gear rod. rs and slide valves, the oncerning the cross section, itions must be observed. tion force losses are to be
Product features		
Simple direct mounting	The actuator can be directly connected with the application The head of the gear rod is connected to the moving part individually on the mounting side or with the Z-KS2 coupl	of the ventilating application
Manual override	Manual override with magnet possible (gear disengagement as long as the magnet adheres to the magnet symbol). The Z-MA magnet for the gear disengagement is enclosed.	
Adjustable stroke	If a stroke limitation will be adjusted, the mechanical operating range on this side of the gear rod can be used starting with an extension length of 20 mm and then can be limited respectively in increments of 20 mm by means of mechanical end stops Z-AS2. If the stroke limiters are used with the motor (with end stop clip Z-ESCM), the operating range can be limited on both sides. It can be adjusted in increments of 0.5 mm (calculatory 0.55 mm) von 040/60/67.5 mm.	
High functional reliability	y The actuator is overload protected, requires no limit switches and automatically stops 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
	End stop clips CM.	Z-ESCM
	Spring bracket CH	Z-FKCH
	Coupling piece M6 for LH, galvanised steel	Z-KS2

Notes • Caution: Power supply voltage! • Parallel connection of other actuators possible. Observe the performance data.

Magnet disengagement

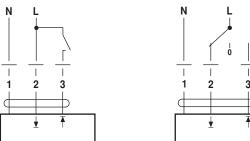
Z-MA



Electrical installation

Wiring diagrams

AC 230 V, open-close



AC 230 V, 3-point

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 two 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.
Application with transverse forces	If end stop clips (Z-ESCM) are used the following applies: ≤50% of the nominal torque (Caution: Use possible only with restrictions. Please contact your supplier.) If end stops are used on the gear rod or at the application no restrictions apply.

Dimensions [mm]

Dimensional drawings

