

Damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 1 m²
- Nominal torque 5 Nm
- Nominal voltage DC 48...110 V
- · Control Open-close, 3-point



Technical data		
Electrical data	Nominal voltage	DC 48110 V
	Nominal voltage range	DC 33.6140 V (EN); DC 33.6121 V (UL)
	Power consumption in operation	2.5 W
	Power consumption in rest position	2 W
	Power consumption for wire sizing	2.5 VA
	Connection supply / control	Cable 1 m, 3 x 0.75 mm <sup>2</sup>
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	Min. 5 Nm
	Direction of motion motor	Selectable with switch 0 (ccw rotation) / 1 (cw rotation)
	Manual override	Gear disengagement with push-button, can be locked
	Angle of rotation	Max. 95°
	Angle of rotation note	can be limited on both sides with adjustable mechanical end stops
	Running time motor	150 s / 90°
	Sound power level motor	35 dB(A)
	Spindle driver	Universal spindle clamp 620 mm
	Position indication	Mechanically, pluggable
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
	Railway standards	With printed circuit board varnished on both sides
	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. (EN 50155)
	Maintenance	Maintenance-free
Weight	Weight approx.	0.53 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: Low voltage!



## Safety notes

- · 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.
- To calculate the torque required, the specifications supplied by the damper manufacturers concerning the cross-section, the design, the installation site and the ventilation conditions must be observed.
- · The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

### **Product features**

Simple direct mounting Simple direct mounting on the damper spindle with an universal spindle clamp,

supplied with an anti-rotation device to prevent the actuator from rotating.

Manual override Manual override with push-button possible (the gear is disengaged for as long as the

button is pressed or remains locked).

High functional reliability The actuator is overload protected, requires no limit switches and automatically stops

when the end stop is reached.

Adjustable angle of rotation Adjustable angle of rotation with mechanical end stops.

#### **Accessories**

	Description	Type
Electrical accessories	Auxiliary switch, add-on, 1 x SPDT	S1A
	Auxiliary switch, add-on, 2 x SPDT	S2A
	Auxiliary switch, add-on, 2 x SPDT, grey	S2A GR
	Feedback potentiometer 140 Ohm, add-on	P140A
	Feedback potentiometer 140 Ohm, add-on, grey	P140A GR
	Feedback potentiometer 200 Ohm, add-on	P200A
	Feedback potentiometer 500 Ohm, add-on	P500A
	Feedback potentiometer 500 Ohm, add-on, grey	P500A GR
	Feedback potentiometer 1 kOhm, add-on	P1000A
	Feedback potentiometer 1 kOhm, add-on, grey	P1000A GR
	Feedback potentiometer 2.8 kOhm, add-on	P2800A
	Feedback potentiometer 2.8 kOhm, add-on, grey	P2800A GR
	Feedback potentiometer 5 kOhm, add-on	P5000A
	Feedback potentiometer 5 kOhm, add-on, grey	P5000A GR
	Feedback potentiometer 10 kOhm, add-on	P10000A
	Feedback potentiometer 10 kOhm, add-on, grey	P10000A GR
	Description	Туре
Mechanical accessories	Shaft extension 170 mm, for damper spindles Ø 620 mm	AV6-20
	Spindle clamp for LMA, clamping range 620 mm	K-ELA
	Spindle clamp for LMA, clamping range 610 mm	K-ELA10
	Spindle clamp for LMA, clamping range 613 mm	K-ELA13
	Spindle clamp for LMA, clamping range 616 mm	K-ELA16
	Universal mounting bracket 180 mm	Z-ARS180
	Form fit insert 8x8 mm, für LMA	ZF8-LMA
	Form fit insert 10x10 mm, for LMA	ZF10-LMA
	Form fit insert 12x12 mm, for LMA	ZF12-LMA
	Form fit insert 8x8 mm, with angle of rotation limiter and position indication for LMA	ZFRL8-LMA
	Form fit insert 10x10 mm, with angle of rotation limiter and position indication for LMA	ZFRL10-LMA



# Accessories

Description	Туре
Form fit insert 12x12 mm, with angle of rotation limiter and position indication for LMA	ZFRL12-LMA
Position indication for LMA, NMA, SMA, GMA	Z-PI

### **Electrical installation**

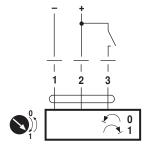


#### **Notes**

- · Caution: Low voltage max. 140 V!
- Parallel connection of other actuators possible. Observe the performance data.

## Wiring diagrams

DC 72 V, open-close



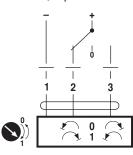
Cable colours:

1 = black

2 = red

3 = white

DC 72 V, 3-point



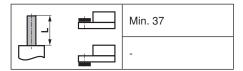
Cable colours:

1 = black 2 = red

3 = white

## **Dimensions [mm]**

## Spindle length



# Clamping range

<u>OI</u>	<b></b>	<b>♦</b> I
620	≥6	≤20

## **Dimensional drawings**

