

Damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 1 m²
- Torque motor 5 Nm
- Nominal voltage DC 48...110 V
- Control Open/close, 3-point
- · with integrated auxiliary switch



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
	Auxiliary switch	1 x SPDT, 0100%
	Switching capacity auxiliary switch	0.5 A (0.2 A inductive, L/R = 3.4 ms), DC 110 V
	Connection supply / control	Cable 1 m, 3 x 0.75 mm ²
	Connection auxiliary switch	Cable 1 m, 3 x 0.75 mm ²
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	5 Nm
	Direction of motion motor	selectable with switch 0 (ccw rotation) / 1 (cw rotation)
	Manual override	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)
	Mechanical interface	Universal shaft clamp 620 mm
	Position indication	Mechanically, pluggable
Safety	Protection class IEC/EN	II reinforced insulation
	Protection class UL	II reinforced insulation
	Protection class auxiliary switch IEC/EN	II reinforced insulation
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	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
	Certification UL	cULus according to UL60730-1A, UL60730-2- 14 and CAN/CSA E60730-1:02
	Certification UL note	The UL marking on the actuator depends on the
	Corumodulori GE rioto	production site, the device is UL-compliant in
		any case
	Railway standards	With printed circuit board varnished on both sides
	Mode of operation	Type 1.B
	Rated impulse voltage supply / control	2.5 kV
	Rated impulse voltage auxiliary switch	2.5 kV
	Control pollution degree	3
	Ambient temperature	-3050°C
	Storage temperature	-4080°C
	Ambient humidity	Max. 95% r.H., non-condensing
	Servicing	maintenance-free

0.68 kg

Weight

Weight

Rotary actuator, Open/close, 3-point, DC 48...110 V, 5 Nm, with integrated auxiliary switch



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!
- 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.

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Simple direct mounting

Manual override

Simple direct mounting on the damper shaft with a universal shaft clamp, supplied with an anti-rotation device to prevent the actuator from rotating.

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

button is pressed or remains locked).

Adjustable angle of rotation

Adjustable angle of rotation with mechanical end stops.

High functional reliability

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

when the end stop is reached.

Flexible signalization With adjustable auxiliary switch (0...100%)

Accessories

	Description	Туре
Electrical accessories	Auxiliary switch 1 x SPDT add-on	S1A
	Auxiliary switch 2 x SPDT add-on	S2A
	Auxiliary switch 2 x SPDT add-on, grau	S2A/300 GR
	Auxiliary switch 2 x SPDT add-on, grau	S2A/500 GR
	Feedback potentiometer 140 Ω add-on	P140A
	Feedback potentiometer 140 Ω add-on, grau	P140A GR
	Feedback potentiometer 200 Ω add-on	P200A
	Feedback potentiometer 500 Ω add-on	P500A
	Feedback potentiometer 500 Ω add-on, grau	P500A GR
	Feedback potentiometer 1 k Ω add-on	P1000A
	Feedback potentiometer 1 k Ω add-on, grau	P1000A GR
	Feedback potentiometer 2.8 kΩ add-on	P2800A
	Feedback potentiometer 2.8 kΩ add-on, grau	P2800A GR
	Feedback potentiometer 5 kΩ add-on	P5000A
	Feedback potentiometer 5 k Ω add-on, grau	P5000A GR
	Feedback potentiometer 10 k Ω add-on	P10000A
	Feedback potentiometer 10 kΩ add-on, grau	P10000A GR
	Description	Туре
Mechanical accessories	Shaft extension 170 mm Ø10 mm for damper shaft Ø 616 mm	AV6-20
	Shaft clamp one-sided, clamping range Ø620 mm, Multipack 20 pcs.	K-ELA
	Shaft clamp one-sided, clamping range Ø610 mm, Multipack 20 pcs.	K-ELA10
	Shaft clamp one-sided, clamping range Ø613 mm, Multipack 20 pcs.	K-ELA13
	Shaft clamp one-sided, clamping range Ø616 mm, Multipack 20 pcs.	K-ELA16

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Accessories

Description	Type
Anti-rotation mechanism 180 mm, Multipack 20 pcs.	Z-ARS180
Form fit insert 8x8 mm, Multipack 20 pcs.	ZF8-LMA
Form fit insert 10x10 mm, Multipack 20 pcs.	ZF10-LMA
Form fit insert 12x12 mm, Multipack 20 pcs.	ZF12-LMA
Form fit insert 8x8 mm, with angle of rotation limiter and position indication, Multipack 20 pcs.	ZFRL8-LMA
Form fit insert 10x10 mm, with angle of rotation limiter and position indication, Multipack 20 pcs.	ZFRL10-LMA
Form fit insert 12x12 mm, with angle of rotation limiter and position indication, Multipack 20 pcs.	ZFRL12-LMA
Position indicator, Multipack 20 pcs.	Z-PI

Electrical installation

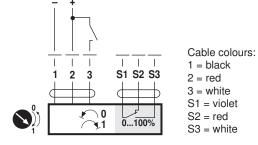


Notes

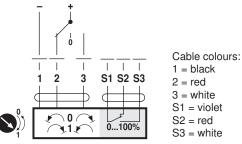
- · Caution: Low voltage max. 140 V!
- · Parallel connection of other actuators possible. Observe the performance data.

Wiring diagrams

DC 72 V, open/close



DC 72 V, 3-point

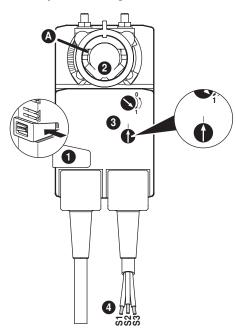


3 = white S1 = violet

S2 = redS3 = white

Operating controls and indicators

Auxiliary switch settings





Note: Perform settings on the actuator only in deenergised state.

Gear disengagement

Holding button pressed down: Gear is disengaged. Manual override is possible.

2 Spindle clamp

Turn until edge line (A) displays the desired switching position of the actuator and release button (1).

Auxiliary switch

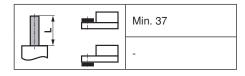
Turn rotary knob until the arrow points to the vertical line.

Connect continuity tester to S1 + S2 or to S1 + S3. If the auxiliary switch should switch in the opposite direction, rotate the auxiliary switch by 180°.



Dimensions [mm]

Spindle length



Clamping range

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620	≥6	≤20

Dimensional drawings

