

Damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 2 m²
- · Nominal torque 10 Nm
- Nominal voltage AC/DC 24 V
- · Control Open-close, 3-point
- · With connecting terminals
- · With integrated auxiliary switch



Technical data Electrical data Nominal voltage AC/DC 24 V Nominal voltage frequency 50/60 Hz AC 19.2...28.8 V / DC 19.2...28.8 V Nominal voltage range Power consumption in operation 1.5 W 0.2 W Power consumption in rest position Power consumption for wire sizing 3.5 VA Auxiliary switch 1 x SPDT, 0...100% Switching capacity auxiliary switch 1 mA...3 (0.5 inductive) A, AC 250 V Connection supply / control Terminals 4 mm² (cable Ø 4...10 mm, 3-wire) Connection auxiliary switch Terminals 4 mm² (cable Ø 4...10 mm, 3-wire) Parallel operation Yes (note the performance data) **Functional data** Torque motor Min. 10 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 8...26.7 mm Position indication Mechanically, pluggable Safety Protection class IEC/EN II Protective insulated Protection class UL II Protective insulated Protection class auxiliary switch IEC/EN 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 Type 1.B Rated impulse voltage supply / control 0.8 kV Rated impulse voltage auxiliary switch 2.5 kV Control pollution degree Ambient temperature -30...50°C Non-operating temperature -40...80°C

Safety notes



Weight

 The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.

0.76 kg

95% r.h., non-condensing

Maintenance-free

Ambient humidity

Maintenance

Weight approx.

Damper actuator, Open-close, 3-point, AC/DC 24 V, 10 Nm, With integrated auxiliary switch



Type

Safety notes

- 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.
- 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.

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

Description

Accessories

	Description	rype
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 2.8 kOhm, add-on	P2800A
	Feedback potentiometer 2.8 kOhm, add-on, grey	P2800A GR
	Feedback potentiometer 1 kOhm, add-on, grey	P1000A 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	Actuator arm, for standard spindle clamp (reversible) K-SA	AH-20
	Actuator arm, for one-sided spindle clamp K-ENSA	AH-25
	Shaft extension 250 mm, for damper spindles Ø 825 mm	AV8-25
	Spindle clamp, one side for NMA	K-ENMA
	Spindle clamp, one side for NMA, SMA	K-ENSA
	Straight ball joint with M8, suitable for damper crank arms KH8	KG10A
	Angled ball joint with M8, suitable for damper crank arms KH8	KG8
	Damper crank arm, for damper spindles	KH8
	Spindle clamp, reversible for NMA and LMQ	K-NA
	Angle of rotation limiter, for K-NA	20334-00001
	ringic or rotation infintor, for retrive	



Accessories

Description	Туре
Form fit insert 8x8 mm, for NMA	ZF8-NMA
Form fit insert 10x10 mm, for NMA / SMA	ZF10-NSA
Form fit insert 12x12 mm, for NMA / SMA	ZF12-NSA
Form fit insert 15x15 mm	ZF15-NSA
Form fit insert 16x16 mm, for NMA / SMA	ZF16-NSA
Mounting kit for linkage operation, NMA for flat installation	ZG-NMA
Base plate extension from NMA to NM	Z-NMA
Position indication for LMA, NMA, SMA, GMA	Z-PI
Terminal protection IP54	Z-TP
Cable sleeve for Ø 4-6 mm, suitable for strain relief NG	43235-00001
Strain relief bushing (cable sleeve) for \varnothing 6-8 mm, suitable for strain relief NG	43235-00002
Cable sleeve for Ø 8-10 mm, suitable for strain relief NG	43235-00003

Electrical installation

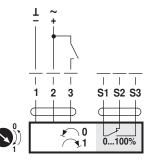


Notes

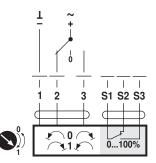
- · Connection via safety isolating transformer.
- Parallel connection of other actuators possible. Observe the performance data.

Wiring diagrams

AC/DC 24 V, open-close

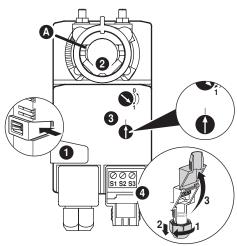


AC/DC 24 V, 3-point



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.

Spindle clamp

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

3 Auxiliary switch

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

4 Terminal connection

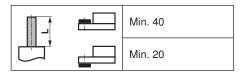
Connect continuity tester to S1 + S2 or to S1 + S3.

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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	826.7	≥8	≤26.7
*	820	≥8	≤20

*Option: Spindle clamp mounted below (accessories K-NA needed)

Dimensional drawings

