

Damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 2 m²
- Nominal torque 10 Nm
- Nominal voltage DC 48...110 V
- Control Open-close, 3-point



Technical data

Electrical data	Nominal voltage	DC 48...110 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	DC 33.6...140 V (IEC/EN); DC 33.6...121 V (UL)
	Power consumption in operation	3.5 W
	Power consumption at rest	2 W
	Power consumption for wire sizing	3.5 VA
	Connection supply	Cable 1 m, 3 x 0.75 mm ²
Functional data	Torque	min. 10 Nm
	Direction of rotation motor	Can be selected with switch 0 (counter-clockwise rotation) / 1 (clockwise rotation)
	Manual override	Gear disengagement with push-button, can be locked
	Angle of rotation	max. 95°, can be limited on both sides with adjustable mechanical end stops
	Running time motor	150 s / 90°
	Sound power level motor max.	35 dB(A)
	Spindle driver	Spindle clamp 3/4"
	Position indication	Mechanical, pluggable
Safety	Protection class IEC/EN	II totally insulated
	Protection class UL	UL Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2, UL Enclosure Type 2
	Electromagnetic compatibility	CE according to 2004/108/EC
	Low-voltage directive	CE according to 2006/95/EC
	Certification IEC/EN	Certified to 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 current voltage supply	2.5 kV
	Control pollution degree	3
	Ambient temperature	-30...50°C
	Non-operating temperature	-40...80°C
	Ambient humidity	95% r.h., non-condensing
	Maintenance	Maintenance-free
Weight	Weight approx.	0.95 kg

Safety notes



- The actuator is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Caution: Low voltage max. 140 V!
- It may be installed only by suitably trained personnel. Any legal technical regulations or technical regulations issued by authorities must be observed during assembly.
- 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.
- The cable must not be removed from the device.

Safety notes

- When calculating the torque required, the specifications supplied by the damper manufacturers (cross-section, construction, place of installation), and the ventilation conditions must be observed.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

Direct mounting	Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with a universal mounting bracket to prevent the actuator from rotating.
Manual override	Manual control with pushbutton possible - temporary, permanently. The gear is disengaged and the actuator decoupled for as long as the button is pressed / latched.
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.

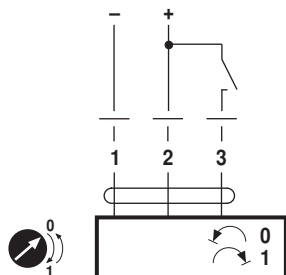
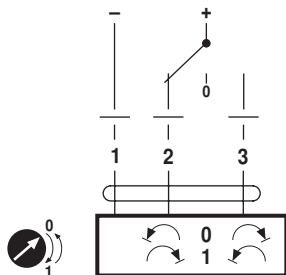
Accessories

	Description	Type
Electrical accessories	Auxiliary switch, add-on, 1 x SPDT	S1A
	Auxiliary switch, add-on, 1 x SPDT, 3 m cable	S1A/300
	Auxiliary switch, add-on, 1 x SPDT, 5 m cable	S1A/500
	Auxiliary switch, add-on, 2 x SPDT, 3 m cable	S2A/300
	Auxiliary switch, add-on, 2 x SPDT, 5 m cable	S2A/500
	Feedback potentiometer 140 Ohm, add-on	P140A
	Feedback potentiometer 200 Ohm, add-on	P200A
	Feedback potentiometer 500 Ohm, add-on	P500A
	Feedback potentiometer 1 kOhm, add-on	P1000A
	Feedback potentiometer 2.8 kOhm, add-on	P2800A
	Feedback potentiometer 5 kOhm, add-on	P5000A
	Feedback potentiometer 10 kOhm, add-on	P10000A
Mechanical accessories	Shaft extension 250 mm, length approx. 250 mm	AV8-25
	Spindle clamp, one side for NM..A, SM..A	K-ENSA
	Spindle clamp, one side for NM..A	K-ENMA
	Spindle clamp, reversible for NM..A and LMQ..	K-NA
	Angle of rotation limiter, for K-NA	20334-00001
	Form-fit insert 8x8 mm, for NM..A	ZF8-NMA
	Form-fit insert 10x10, for NM..A / SM..A	ZF10-NSA
	Form-fit insert 12x12, for NM..A / SM..A	ZF12-NSA
	Form-fit insert 16x16, for NM..A / SM..A	ZF16-NSA
	Damper crank arm, for damper spindles	KH8
	Actuator arm, for one-sided spindle clamp K-ENSA	AH-25
	Actuator arm, for K-SA	AH-20
	Universal mounting bracket 180 mm	Z-ARS180
	Mounting kit for linkage operation, NM..A for flat installation	ZG-NMA
	Angled ball joint with M8, suitable for damper crank arms KH8	KG8
	Straight ball joint with M8, suitable for damper crank arms KH8	KG10A
	Position indication for LM..A, NM..A, SM..A, GM..A	Z-PI
	Terminal protection IP54	Z-TP
	Base plate extension from NM..A to NM..	Z-NMA

Electrical installation

Notes

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

Wiring diagrams
Open-close control

3-point control

Dimensions [mm]

	min. 40
	min. 20

Clamping ranges

	8...26.7	≥8	≤26.7
	8...20	≥8	≤20

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

Dimensional drawings
