

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 |
| 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

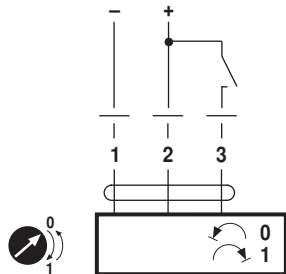


Notes

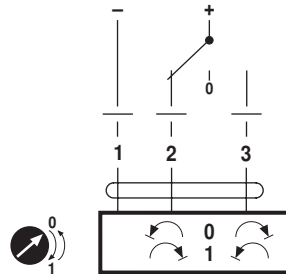
- Caution: Low voltage max. 140 V!
- Parallel connection of other actuators possible. Observe the performance data.

Wiring diagrams

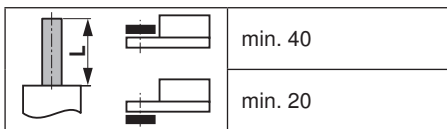
Open-close control



3-point control



Dimensions [mm]



Clamping ranges

| | 8...26.7 | ≥8 | ≤26.7 |
|--|----------|----|-------|
| | 8...20 | ≥8 | ≤20 |

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

Dimensional drawings

