

Technical data sheet

Damper actuator for adjusting dampers in technical building installations

- ${\, \bullet \,}$ Air damper size up to approx. 1 m^2
- Torque motor 5 Nm
- Nominal voltage AC/DC 24 V
- Control Open/close, 3-point



Technical data

| Electrical data | Nominal voltage | AC/DC 24 V |
|-----------------|--|---|
| | Nominal voltage frequency | 50/60 Hz |
| | Nominal voltage range | AC 19.228.8 V / DC 19.228.8 V |
| | Power consumption in operation | 1 W |
| | Power consumption in rest position | 0.2 W |
| | Power consumption for wire sizing | 1.5 VA |
| | Connection supply / control | 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 | Mechanical, pluggable |
| Safety data | Protection class IEC/EN | III, Safety Extra-Low Voltage (SELV) |
| | Power source UL | Class 2 Supply |
| | 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 |
| | Certification IEC/EN | IEC/EN 60730-1 and IEC/EN 60730-2-14 |
| | UL Approval | cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 |
| | | The UL marking on the actuator depends on the production site, the device is UL-compliant in any case |
| | Type of action | Туре 1 |
| | Rated impulse voltage supply / control | 0.8 kV |
| | Pollution degree | 3 |
| | Ambient humidity | Max. 95% RH, non-condensing |
| | Ambient temperature | -3050°C [-22122°F] |
| | Storage temperature | -4080°C [-40176°F] |
| | Servicing | maintenance-free |
| Weight | Weight | 0.46 kg |





• This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially 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 device and that it is ensured that the ambient conditions remain within the thresholds according to the data sheet at any time.
- 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 situation 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 shaft with a universal shaft clamp, supplied with an anti- rotation device to prevent the actuator from rotating. |
|------------------------------|---|
| Manual override | Manual override with push-button possible (the gear train 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. |

Accessories

| Electrical accessories | Description | Туре |
|------------------------|---|------------|
| | Auxiliary switch 1 x SPDT add-on | S1A |
| | Auxiliary switch 2 x SPDT add-on | S2A |
| | Feedback potentiometer 140 Ω add-on | P140A |
| | Feedback potentiometer 200 Ω add-on | P200A |
| | Feedback potentiometer 500 Ω add-on | P500A |
| | Feedback potentiometer 1 k Ω add-on | P1000A |
| | Feedback potentiometer 2.8 kΩ add-on | P2800A |
| | Feedback potentiometer 5 k Ω add-on | P5000A |
| | Feedback potentiometer 10 k Ω add-on | P10000A |
| Mechanical accessories | Description | Туре |
| | 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 |
| | 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 |





Supply from isolating transformer.

Parallel connection of other actuators possible. Observe the performance data.

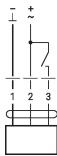
Wire colours:

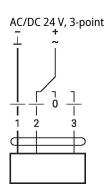
1 = black

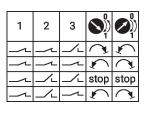
- 2 = red
- 3 = white

Wiring diagrams

AC/DC 24 V, open/close



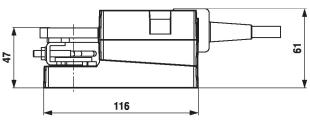




Dimensions

Spindle length

| | Min. 37 |
|--|---------|
| | - |



Clamping range

| OI | 1 | |
|-----|----|-----|
| 620 | ≥6 | ≤20 |

