

Rotary actuator fail-safe for adjusting dampers in technical building installations

- Air damper size up to approx. 0.8 m²
- Torque motor 4 Nm
- Nominal voltage AC/DC 24 V
- Control modulating 2...10 V
- Position feedback 2...10 V





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 21.628.8 V |
| | Power consumption in operation | 2.5 W |
| | Power consumption in rest position | 1 W |
| | Power consumption for wire sizing | 5 VA |
| | Connection supply / control | Cable 1 m, 4 x 0.75 mm ² |
| | Parallel operation | Yes (note the performance data) |
| Functional data | Torque motor | 4 Nm |
| | Torque fail-safe | 4 Nm |
| | Operating range Y | 210 V |
| | Input Impedance | 100 kΩ |
| | Position feedback U | 210 V |
| | Position feedback U note | Max. 0.7 mA |
| | Position accuracy | ±5% |
| | Direction of motion motor | selectable with switch L/R |
| | Direction of motion fail-safe | selectable by mounting L/R |
| | Manual override | No |
| | Angle of rotation | Max. 95° |
| | Angle of rotation note | Adjustable 37100% with integrated mechanical limitation |
| | Running time motor | 150 s / 90° |
| | Running time fail-safe | <pre><20 s @ -2050°C / <60 s @ -30°C</pre> |
| | Sound power level, motor | 30 dB(A) |
| | Mechanical interface | |
| | Position indication | Universal shaft clamp 816 mm Mechanical |
| | Service life | |
| | | Min. 60'000 fail-safe positions |
| Safety data | Protection class IEC/EN | III, Safety Extra-Low Voltage (SELV) |
| | Degree of protection IEC/EN | IP54 |
| | 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 |
| | Mode of operation | 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 |



LF24-SR

| Weight | Weight 1.5 kg | | |
|------------------------------|---|--|--|
| Safety notes | | | |
| Â | This device has been designed for use in stationary heating, ventilation systems and must not be used outside the specified field of application in any other airborne means of transport. Outdoor application: only possible in case that no (sea) water, snow, ice aggressive gases interfere directly with the device and that it is ensured conditions remain within the thresholds according to the data sheet at Only authorised specialists may carry out installation. All applicable leg installation regulations must be complied during installation. The device may only be opened at the manufacturer's site. It does not a 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 data conditions must be observed. The device contains electrical and electronic components and must not household refuse. All locally valid regulations and requirements must be | , especially in aircraft of e, insolation or d that the ambient any time. al or institutional contain any parts that nper manufacturers the ventilation | |
| Product features | | | |
| Mode of operation | The actuator is connected with a standard control signal of 010 V and moves the damper to the operating position at the same time as tensioning the return spring. The damper is turned back to the fail-safe position by spring force when the supply voltage is interrupted. | | |
| 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. | | |
| 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 2 x SPDT Feedback potentiometer 200 Ω Feedback potentiometer 1 k Ω Signal converter voltage/current 100 k Ω Supply AC/DC 24 V Positioner for wall mounting Positioner for built-in mounting Positioner for front-panel mounting Positioner for wall mounting | S2A-F P200A-F P1000A-F Z-UIC SGA24 SGE24 SGE24 SGF24 CRP24-B1 | |
| Mechanical accessories | Description | Туре | |
| | Shaft extension 170 mm Ø10 mm for damper shaft Ø 616 mm Shaft clamp reversible, clamping range Ø1620 mm Ball joint suitable for damper crank arm KH8 / KH10, Multipack 10 pcs. Ball joint suitable for damper crank arm KH8. Multipack 10 pcs. | AV6-20 K6-1 KG10A KG8 | |

Angle of rotation limiter, with end stop

Form fit adapter 8x8 mm

Ball joint suitable for damper crank arm KH8, Multipack 10 pcs.

Actuator arm, clamping range Ø8...16 mm, Slot width 8.2 mm

Mounting kit for linkage operation for flat installation

Anti-rotation mechanism 180 mm, Multipack 20 pcs.

Damper crank arm Slot width 8.2 mm, clamping range Ø10...18 mm

Mounting kit for linkage operation for side installation Slot width 6.2 mm

KG8

KH8

KH-LF

ZDB-LF

ZF8-LF

ZG-LF1

ZG-LF3

Z-ARS180L

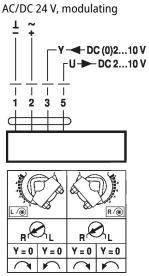




Supply from isolating transformer.

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





Cable colours: 1 = black 2 = red 3 = white 5 = white

Dimensions

Spindle length

| | Min. 84 |
|--|---------|
| | Min. 20 |

Clamping range

| 01 | |
|-----|-----|
| 816 | 816 |

