


Dampers up to approx. 0.8 m²
**Open/Close actuator
(AC/DC 24 V)**
Control by single-pole contact
Application

For the operation of air dampers that perform safety functions (e.g. frost and smoke protection, hygiene, etc.).

Mode of operation

The LF... actuator moves the damper to its normal working position while tensioning the return spring at the same time. If the power supply is interrupted, the energy stored in the spring moves the damper back to its safe position.

Product features
Simple direct mounting on the damper spindle by universal spindle clamp. An anti-rotation device is supplied to prevent unwanted rotation of the whole unit.

Mechanical angle of rotation limiting adjustable with built-in stop.

High functional reliability

The actuator is overload proof, needs no limit switches and halts automatically at the end stop.

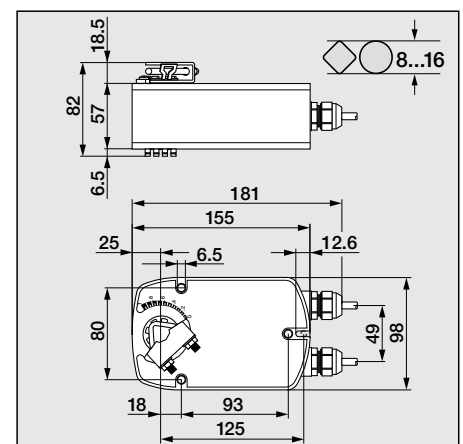
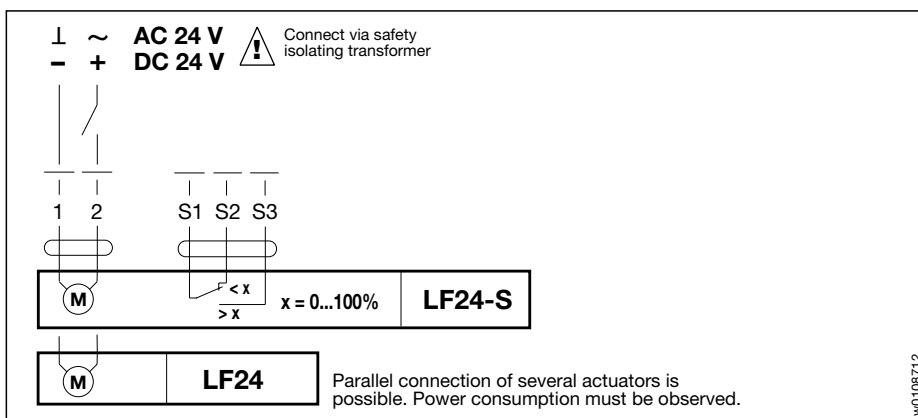
Flexible signalling 0...100% ◁, with adjustable auxiliary switch (LF24-S only).

Adjusting the auxiliary switch LF24-S, page 6

Mounting accessories, page 11

Mounting instructions, pages 13...15

Important: Read the notes about the use and torque requirements of the damper actuators on page 3.

Dimensions

Wiring diagram


| Technical data | LF24, LF24-S |
|---------------------------|--|
| Nominal voltage | AC 24 V 50/60 Hz, DC 24 V |
| Nominal voltage range | AC 19.2...28.8 V, DC 21.6...28.8 V |
| For wire sizing | 7 VA (I _{max} 5.8 A @ 5 ms) |
| Power consumption | |
| – motoring | 5 W |
| – holding | 2.5 W |
| Connecting cable | – motor 1 m long, 2 x 0.75 mm ² – auxiliary switch (LF24-S) 1 m long, 3 x 0.75 mm ² |
| Auxiliary switch (LF24-S) | 1 x SPDT 6 (1.5) A, AC 250 V ☐ |
| – Switching point | adjustable 0...100% ◁ |
| Direction of rotation | selected by mounting L/R |
| Torque | – motor min. 4 Nm (at rated voltage) – spring return min. 4 Nm |
| Angle of rotation | max. 95° (adjustable 37...100% ◁ with built-in mechanical stop) |
| Running time | – motor 40...75 s (0...4 Nm) – spring return ∓20 s @ -20...50 °C / max. 60 s @ -30 °C |
| Sound power level | motor max. 50 dB (A), spring ∓62 dB (A) |
| Service life | min. 60 000 operations |
| Position indication | mechanical |
| Protection class | ◊ (safety extra-low voltage) |
| Degree of protection | IP 54 |
| Ambient temp. range | -30...+50 °C |
| Non-operating temp. | -40...+80 °C |
| Humidity test | to EN 60335-1 |
| EMC | CE according to 89/336/EEC, 92/31/EEC, 93/68/EEC |
| Low Voltage Directive | CE according to 73/23/EEC |
| Maintenance | maintenance-free |
| Weight | 1400 g |