# Technical data sheet SGF24

**Positioners suitable for use with the modulating damper actuators LM..A-SR, NM..A-SR, SM..A-SR and GM..A-SR**
- **For front-panel mounting**


## Technical data

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|---|---|---|
| **Electrical data** | Nominal voltage | AC/DC 24 V |
| | Nominal voltage frequency | 50/60 Hz |
| | Nominal voltage range | AC 19.2...28.8 V / DC 19.2...28.8 V |
| | Power consumption in operation | 0.3 W |
| | Power consumption for wire sizing | 1 VA |
| | Output power | for a maximum of 10 actuators |
| | Connection supply / control | Terminals 1.5 mm² |
| **Functional data** | Positioning signal Y | DC 2...10 V |
| | Positioning signal Y note | DC 0...10V switchable with slide switch |
| | Operating range Y note | Reversible operating range DC 0...10V or DC 2...10V |
| | Scale | 0…100% (angle of rotation can be limited mechanically with rotary knob) |
| **Safety** | Protection class IEC/EN | III Safety extra-low voltage |
| | Degree of protection IEC/EN | IP40 (IP54 with cable glands) |
| | EMC | CE according to 2004/108/EC |
| | Principle of operation | Type 1.B |
| | Ambient temperature | -20...50°C |
| | Non-operating temperature | -40...80°C |
| | Humidity test | In according to EN60730-1 |
| | Maintenance | Maintenance-free |
| **Weight** | Weight approx. | 0.05 kg |

## Safety notes

- The positioner is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- It may only be installed by suitably trained personnel. Any legal regulations or 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 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

**Application**

The positioner is used for the (remote) control of modulating damper actuators or as a minimum positioner (lower limitation of output signals from modulating controllers). The adjustment range is 0...100% angle of rotation of the connected actuator.

**Large range**

The positioner is supplied with operating voltage via terminals 1 and 2. Proportionate to the position of the rotary knob, a positioning signal Y is generated which is either DC 2...10V or DC 0...10V or a position change occurs at the actuator within the range of 0...100%. The angle of rotation of the adjustment knob can be subjected to mechanical limitation.

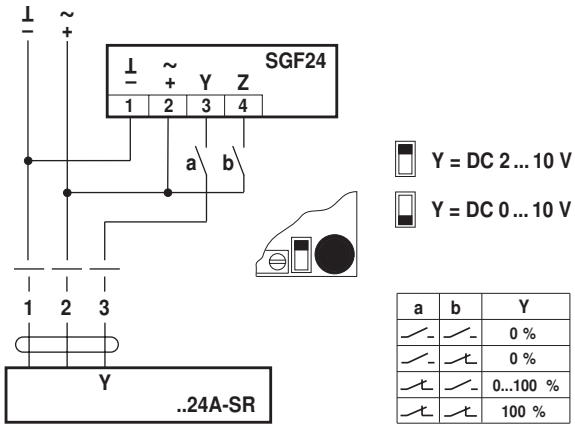
## Product features

**Easy switching** The switching from DC 2...10V to DC 0...10V is accomplished by means of a slide switch on the printed circuit board.

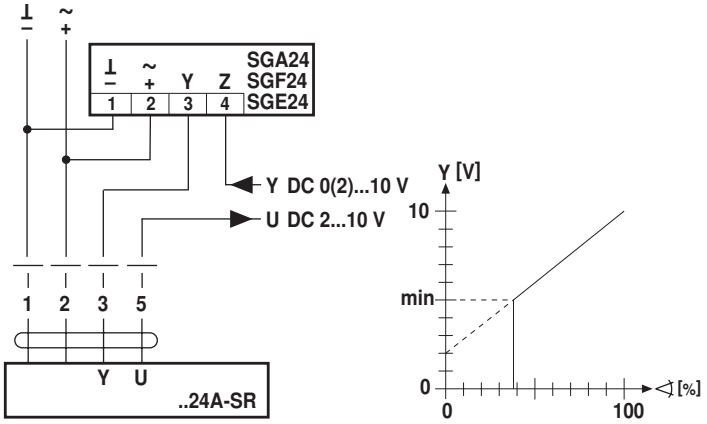
## Electrical installation

**Notes**
- Connection via safety isolating transformer.

### Wiring diagrams

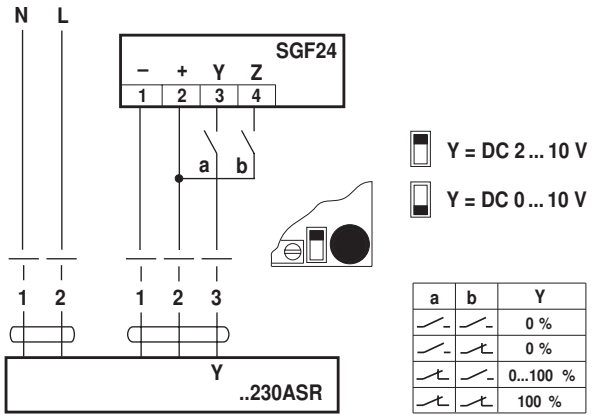


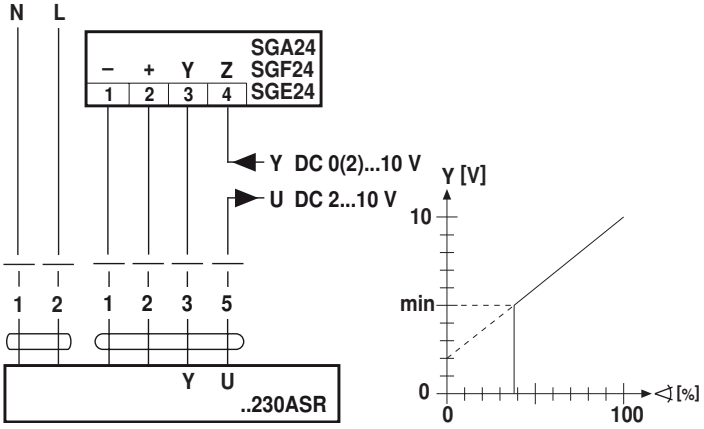

**Minimum limit**




**Notes**
- Caution: Power supply voltage!

**Minimum limit**



## Dimensions [mm]

### Dimensional drawings