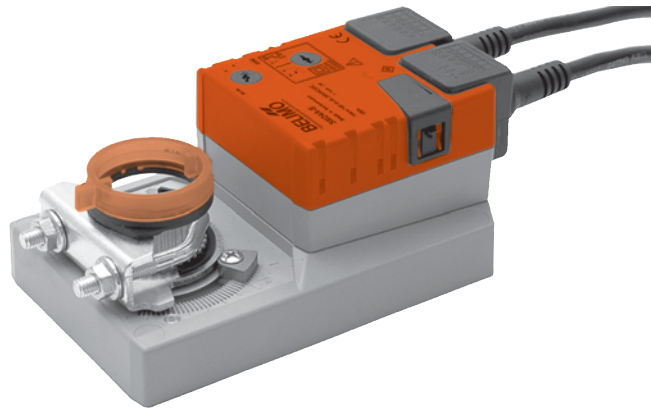


Damper actuator for operating air control dampers in ventilation and air-conditioning systems for building services installations

- For air control dampers up to approx. 4 m<sup>2</sup>
- Torque 20 Nm
- Nominal voltage AC/DC 24 V
- Control: Open-close or 3-point
- Integrated feedback potentiometer


**Technical data**

<b>Electrical data</b>	Nominal voltage	AC 24 V, 50/60 Hz DC 24 V	
	Nominal voltage range	AC/DC 19.2 ... 28.8 V	
	Power consumption	In operation	2 W @ nominal torque
		At rest	0.2 W
		For wire sizing	4 VA
	Feedback potentiometer	5 kΩ ±5% 1 W	
	Connection	Motor	Cable 1 m, 3 x 0.75 mm <sup>2</sup>
Feedback potentiometer		Cable 1 m, 3 x 0.75 mm <sup>2</sup>	
<b>Functional data</b>	Torque (nominal torque)	Min. 20 Nm @ nominal voltage	
	Direction of rotation	Reversible with switch 0 ↺ or 1 ↻	
	Manual override	Gearing latch disengaged with pushbutton, self-resetting	
	Angle of rotation	Max. 95° ↔, limited on both sides by means of adjustable, mechanical end stops	
	Running time	150 s	
	Sound power level	Max. 45 dB (A)	
	Position indication	Mechanical, pluggable	
<b>Safety</b>	Protection class	III Safety extra-low voltage	
	Degree of protection	IP54 in any mounting position	
	EMC	CE according to 89/336/EEC	
	Mode of operation	Type 1 (to EN 60730-1)	
	Ambient temperature range	-30 ... +50 °C	
	Non-operating temperature	-40 ... +80 °C	
	Ambient humidity range	95% r.H., non-condensating (EN 60730-1)	
	Maintenance	Maintenance-free	
<b>Dimensions / Weight</b>	Dimensions	See «Dimensions» on page 2	
	Weight	Approx. 1'100 g	

**Safety notes**


- The damper actuator is not allowed to be used outside the specified field of application, especially in aircraft or any other form of air transport.
- Assembly must be carried out by 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 cables must not be removed from the device.
- When calculating the required torque, the specifications supplied by the damper manufacturers (cross section, design, installation site), and the air flow 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**

- Simple direct mounting** Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.
- Manual override** Manual operation is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed).
- Adjustable angle of rotation** Adjustable angle of rotation with mechanical end stops.
- High functional reliability** The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.
- Position feedback** Position feedback with integrated feedback potentiometer 0 ... 100%.

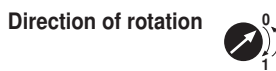
**Accessories**

	Description	Data sheet
Electrical accessories	Auxiliary switch S..A..	T2 - S..A..
	Feedback potentiometer P..A..	T2 - P..A..
Mechanical accessories	Various accessories (clamps, shaft extensions etc.)	T2 - Z-SM..A..

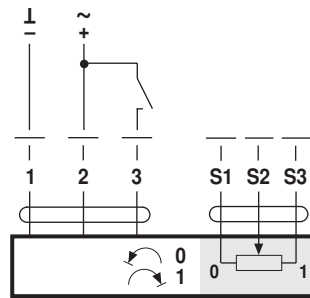
**Electrical installation**

**Wiring diagrams**

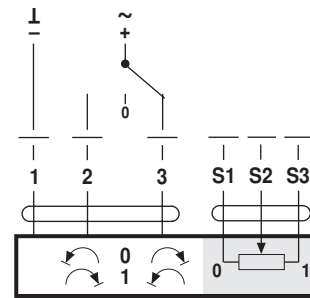
- Notes**
- Connection via safety isolating transformer.
  - Other actuators can be connected in parallel. Please note the performance data.



**Open-close control**

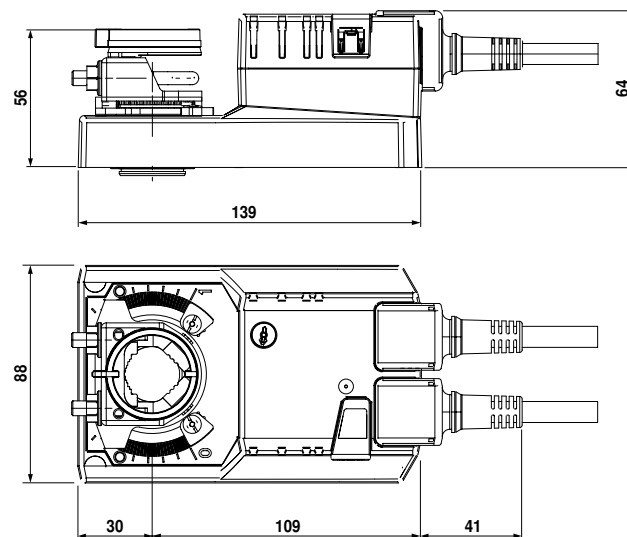


**3-point control**



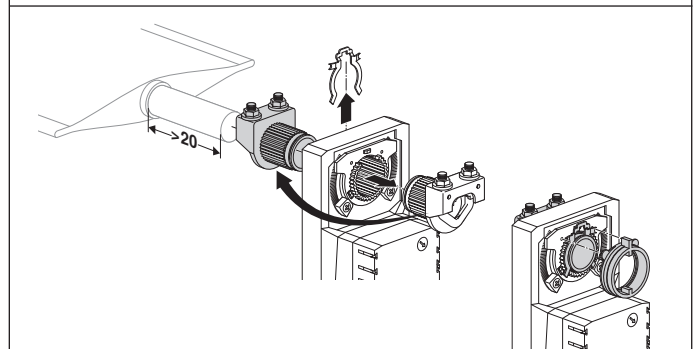
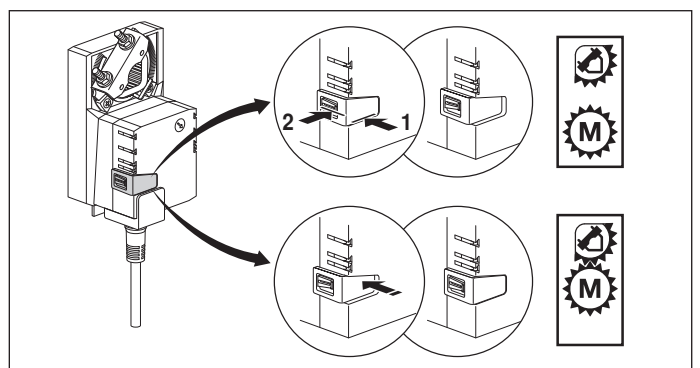
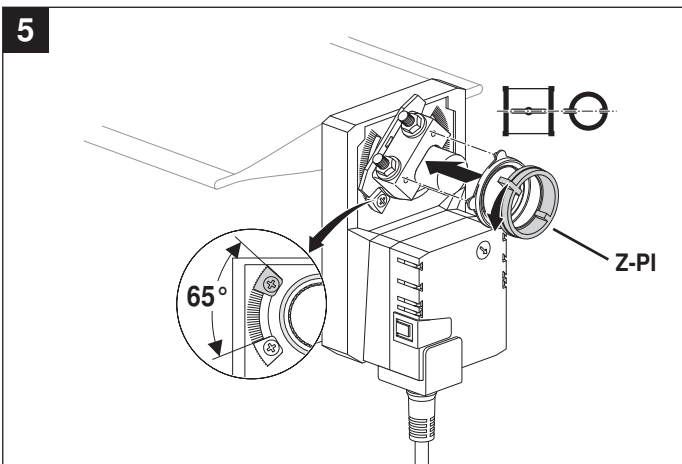
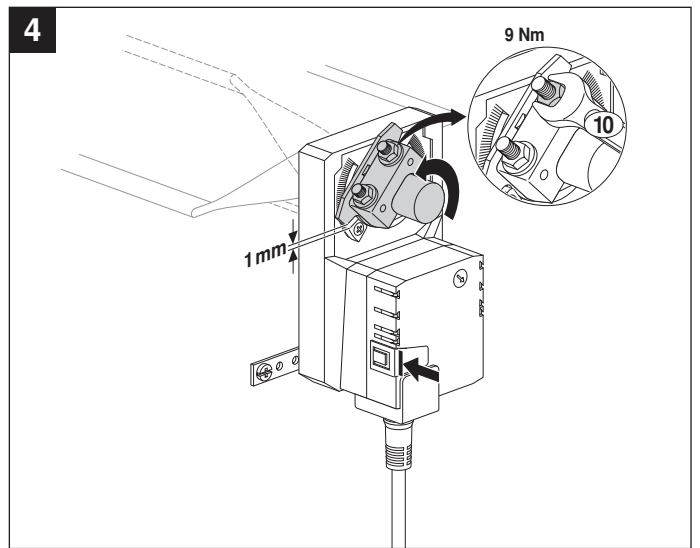
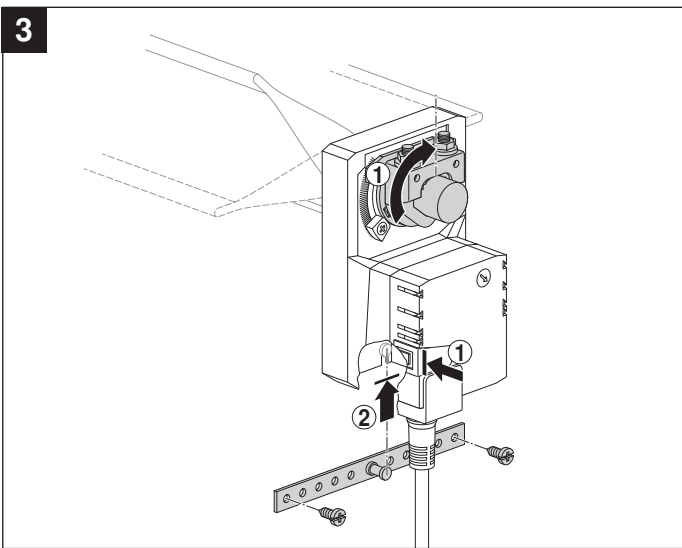
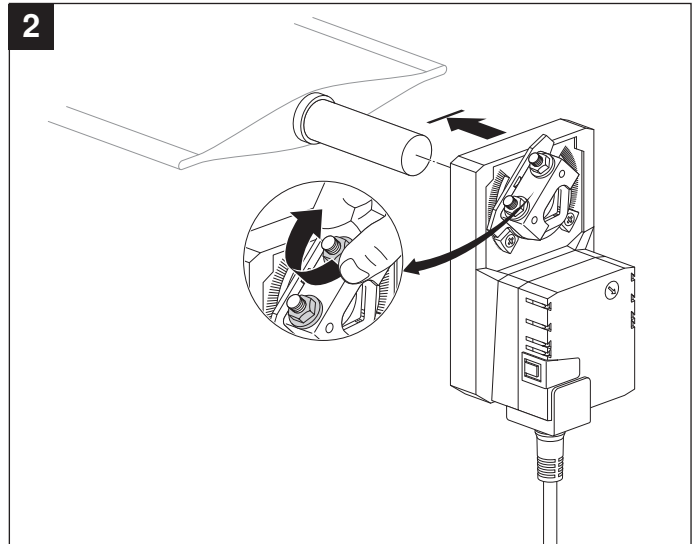
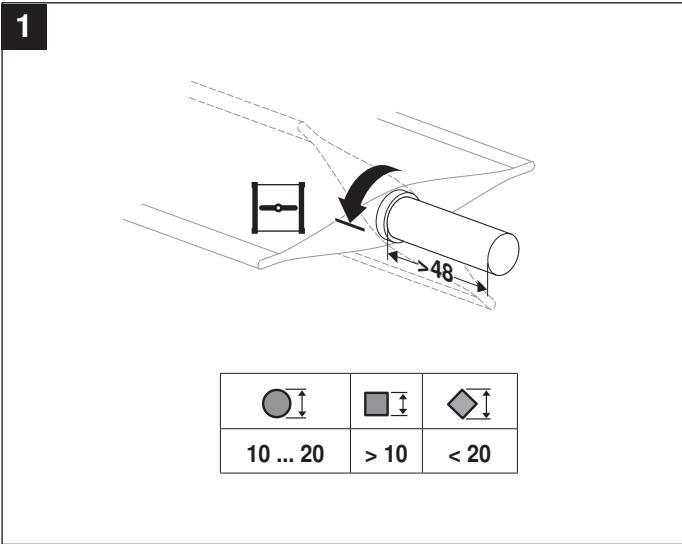
**Dimensions [mm]**

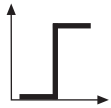
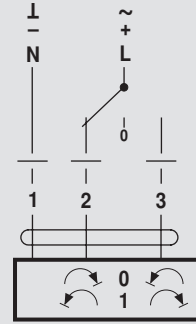
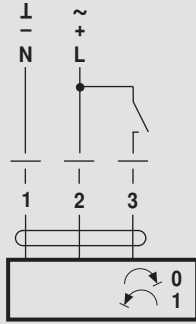
**Dimensional drawings**



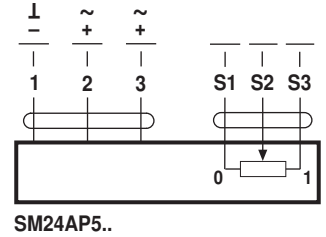
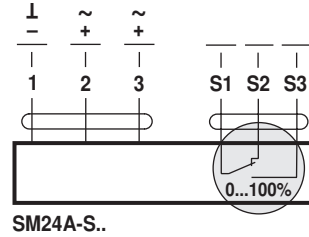
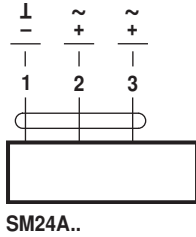
Damper spindle	Length	
Clamp on top	min. 42	10 ... 20 (26.7)
Clamp on bottom	min. 20	10 ... 20

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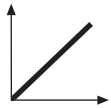
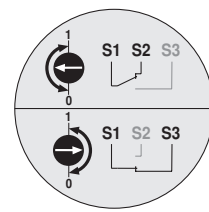
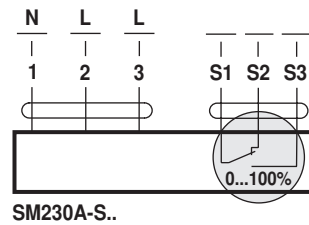
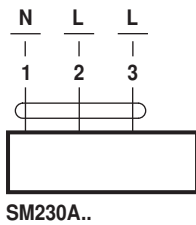




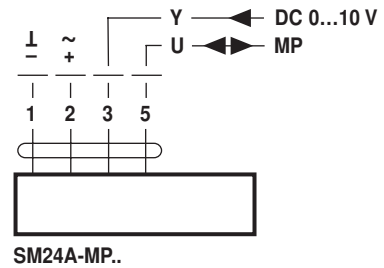
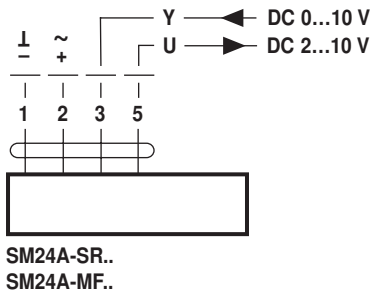
AC 24 V / DC 24 V



AC 100 ... 240 V ⚠



AC 24 V / DC 24 V



AC 100 ... 240 V ⚠

