

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

- For air dampers up to approx. 0.4 m<sup>2</sup>
- Torque 2 Nm
- Nominal voltage AC/DC 24 V
- Control: Open-close or 3-point
- Degree of protection IP66


**Type overview**

Type	Direction of rotation
CM24G-L	counter-clockwise (ccw)
CM24G-R	clockwise (cw)

**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 0.5 W @ nominal torque At rest 0.2 W For wire sizing 1 VA
	Connection	Cable 1 m, 3 x 0.75 mm <sup>2</sup>
<b>Functional data</b>	Torque (nominal torque)	Min. 2 Nm @ nominal voltage
	Direction of rotation	See «Type overview»
	Manual override	Gear disengagement with magnet
	Angle of rotation	Without limit Endless With limit Fixed 315°↔ or 0 ... 287.5°↔ with mechanical end stops, can be adjusted in 2.5°↔ increments
	Running time	75 s / 90°↔
	Sound power level	Max. 35 dB (A)
	Position indicator	Mechanical, pluggable (with integrated magnet for gear disengagement)
	<b>Safety</b>	Protection class
Degree of protection		IP66
<b>EMC</b>		NEMA2, UL Enclosure Type 2
	Certification	CE according to 2004/108/EC cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02 Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14
<b>Dimensions / Weight</b>	Mode of operation	Type 1 (EN 60730-1)
	Rated impulse voltage	0.8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature	-30 ... +50 °C
	Non-operating temperature	-40 ... +80 °C
	Ambient humidity	95% r.H., non-condensating (EN 60730-1)
	Maintenance	Maintenance-free
	Dimensions	See «Dimensions» on page 2
	Weight	Approx. 220 g

**Notes**

- To guarantee IP66 protection, the device must be mounted on the rear of the damper housing without a gap.
- If the device is mounted on the front of the damper housing (i.e. turned 180°↔), it only has IP54 protection.

**Safety notes**


- The 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.
- 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 ( $\varnothing$  6 ... 12.7 mm). The actuator is then secured with the anti-rotation strap supplied, to prevent it from rotating.
- Manual override** Manual override with magnet possible (the gear is disengaged as long as the magnet adheres to the symbol  $\odot$ ). The magnet for gear disengagement is integrated in the position indicator.
- 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.

**Electrical installation**

**Wiring diagrams**

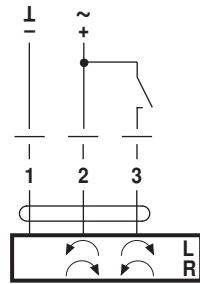
**Note**

- Connect via safety isolation transformer.
- Other actuators can be connected in parallel.

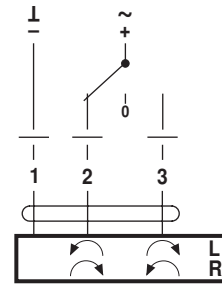
Please note the performance data.



**Open-close control**

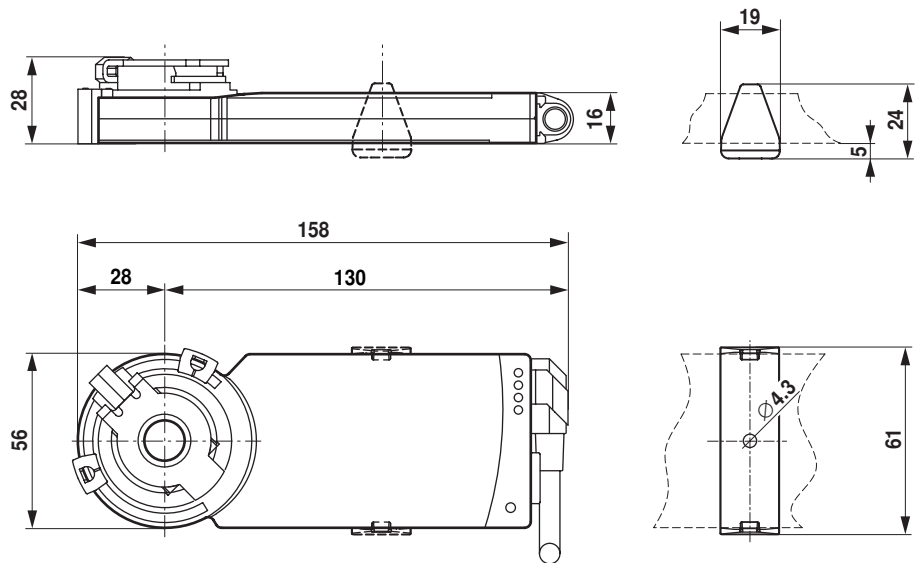


**3-point control**

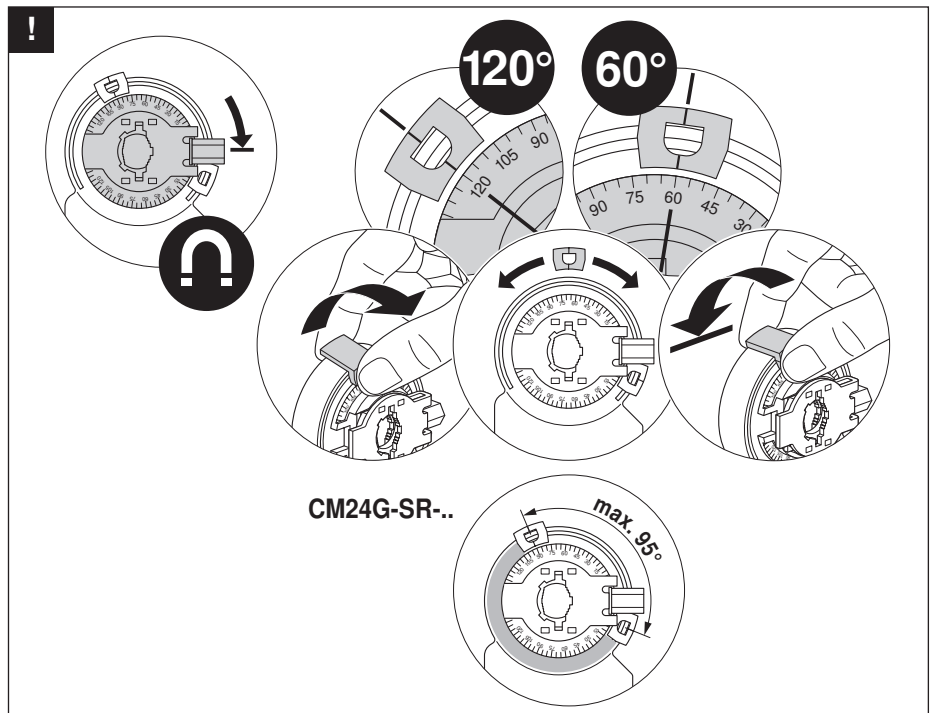
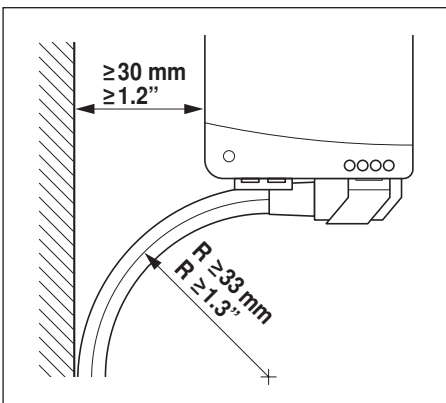
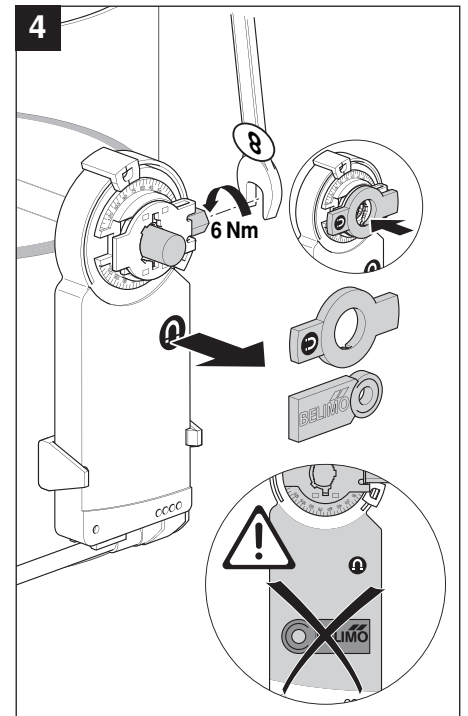
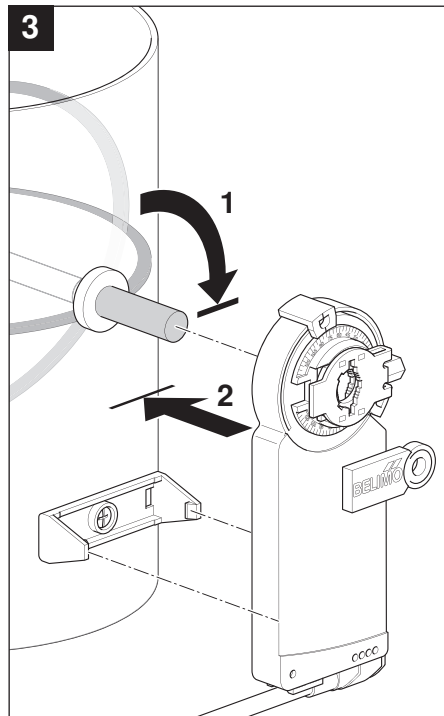
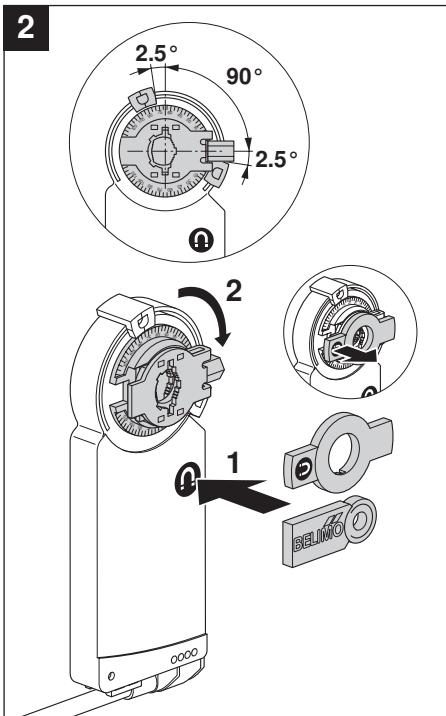
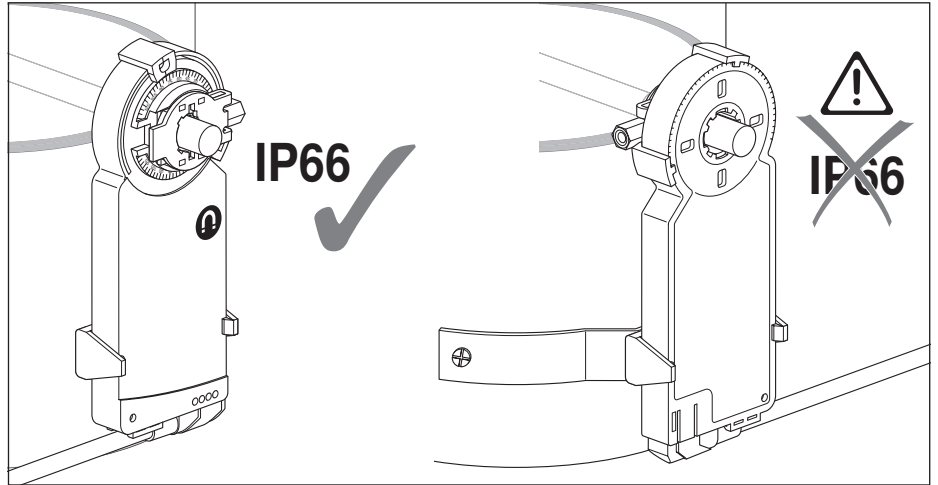
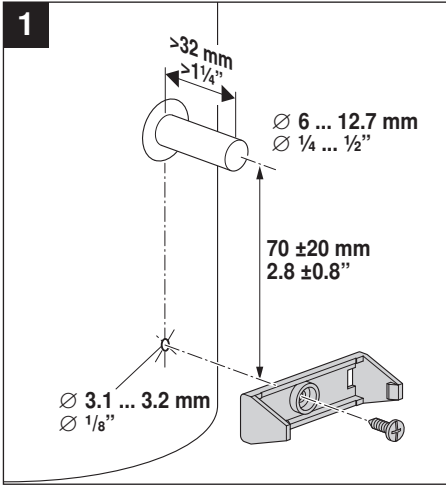


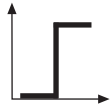
**Dimensions [mm]**

**Dimensional drawings**

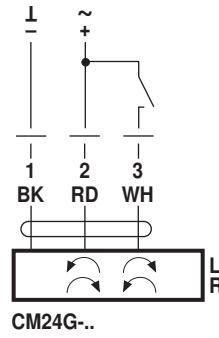
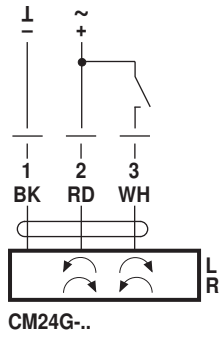


Damper spindle	Length	$\varnothing$
	$\geq 32$	6 ... 12.7

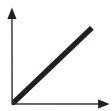
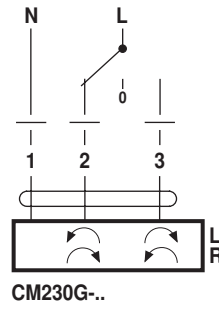
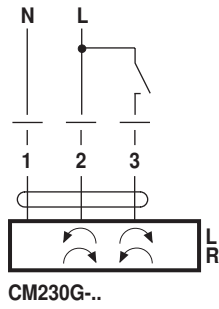




AC 24 V / DC 24 V



AC 100 ... 240 V



AC 24 V / DC 24 V

