

Damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 0.4 m²
- Nominal torque 2 Nm
- Nominal voltage AC/DC 24 V
- Control Open-close, 3-point
- Degree of protection IP66 - Optimum protection in smallest size


Technical data

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	0.5 W
	Power consumption in rest position	0.2 W
	Power consumption for wire sizing	1 VA
	Connection supply / control	Cable 1 m, 3 x 0.75 mm ²
Functional data	Parallel operation	Yes (note the performance data)
	Torque motor	Min. 2 Nm
	Direction of motion motor	cw rotation
	Manual override	Gear disengagement with magnet
	Angle of rotation	0...287.5°
	Angle of rotation note	Without limitation: endless With one end stop clip Z-ESCM: 315°
	Running time motor	75 s / 90°
	Sound power level motor	35 dB(A)
	Spindle driver	Universal spindle clamp 6...12.7 mm
	Position indication	Mechanically, pluggable (with integrated magnet for gear disengagement)
	Safety	Protection class IEC/EN
Protection class UL		UL Class 2 Supply
Degree of protection IEC/EN		IP66 (taking into account the installation specification)
Degree of protection NEMA/UL		NEMA 2, UL Enclosure Type 2
EMC		CE according to 2004/108/EC
Certification IEC/EN		IEC/EN 60730-1 and IEC/EN 60730-2-14
Certification UL		cULus according to UL 60730-1A, UL 60730-2-14 and CAN/CSA E60730-1:02
Mode of operation		Type 1
Rated impulse voltage supply / control		0.8 kV
Control pollution degree		3
Ambient temperature		-30...50 °C
Non-operating temperature	-40...80 °C	
Ambient humidity	95% r.h., non-condensing	
Maintenance	Maintenance-free	
Weight	Weight	0.28 kg

Safety notes


- The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
- Outdoor application: only possible in case that no (sea)water, snow, ice, insolation or aggressive gases interfere directly with the actuator and that is ensured that the ambient conditions remain at any time within the thresholds according to the data sheet.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- Junction boxes must at least correspond with enclosure IP degree of protection!

Safety notes

- In order to ensure that the IP66 protection can be guaranteed, the device must be mounted with its rear side tightly up against the damper housing.
- In the event the device is installed with a 180° rotation (front side pressed against the damper housing), then only a protection of IP54 is guaranteed.
- 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.
- Cables must not be removed from the device.
- To calculate the torque required, the specifications supplied by the damper manufacturers concerning the cross-section, the design, the installation site and the ventilation conditions must be observed.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

- Simple direct mounting** The actuator is mounted directly on the damper spindle (\varnothing 6...12.7 mm) with an universal spindle clamp and then secured with the anti-rotation device 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 magnet symbol). The magnet for gear disengagement is integrated in the position indication.
- High functional reliability** The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.
- Adjustable angle of rotation** Adjustable angle of rotation with mechanical end stops.

Accessories

	Description	Type
Mechanical accessories	Anti-rotation clip for CM..	Z-ARCM
	Magnet disengagement	Z-MA
	Position indicator CM..	Z-PICM

Electrical installation

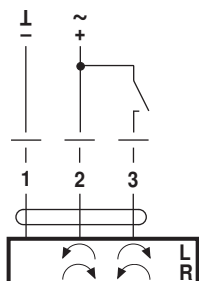


Notes

- Connection via safety isolating transformer.
- Parallel connection of other actuators possible. Observe the performance data.

Wiring diagrams

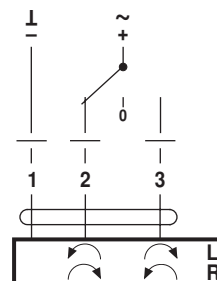
AC/DC 24 V, open-close



Cable colours:

- 1 = black
- 2 = red
- 3 = white

AC/DC 24 V, 3-point



Cable colours:

- 1 = black
- 2 = red
- 3 = white

Dimensions [mm]

Spindle length

	Min. 32
	-

Clamping range

6...12.7	6 / 8 / 10	6...12.7

Dimensional drawings

