

Modulating 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 Modulating
- · Spindle driver Form fit 8x8 mm
- With connecting terminals



Technical data		
Electrical data	a Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 19.228.8 V
	Power consumption in operation	1 W
	Power consumption in rest position	0.5 W
	Power consumption for wire sizing	1.5 VA
	Connection supply / control	Terminals 1.5 mm ² Cu wire or 1.0 mm ² Cu strands (4-wire)
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	Min. 2 Nm
	Positioning signal Y	DC 010 V
	Positioning signal Y note	Input impedance 100 kΩ
	Operating range Y	DC 210 V
	Position feedback U	DC 210 V
	Position feedback U note	Max. 1 mA
	Position accuracy	±5%
	Direction of motion motor	cw rotation
	Direction of motion note	Y = 0 V: right end stop, position 0
	Manual override	with magnet
	Angle of rotation	95°, fixed setting
	Running time motor	75 s / 90°
	Sound power level motor	35 dB(A)
	Spindle driver	Form fit 8x8 mm
	Position indication	Mechanically, pluggable (with integrated magnet for gear disengagement)
Safety	Protection class IEC/EN	III Safety extra-low voltage
	Protection class UL	UL Class 2 Supply
	Degree of protection IEC/EN	IP20
	Degree of protection NEMA/UL	NEMA 1, UL Enclosure Type 1
	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	2
	Ambient temperature	-3050°C
	Non-operating temperature	-4080°C
	Ambient humidity	95% r.h., non-condensing
	Maintenance	Maintenance-free

Safety notes



Weight

Weight

• The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.

0.18 kg

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Safety notes

- 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.
- The mechanical end stops for limiting the angle of rotation may only be removed for adjustment. They must always be mounted during operation.
- 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.
- 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

Mode of operation
The actuator is connected with a standard modulating signal of DC 0...10V and drives

to the position defined by the positioning signal. Measuring voltage U serves for the electrical display of the damper position 0...100% and as slave control signal for other

actuators.

Simple direct mounting The actuator with its hollow spindle is mounted in a form-fit manner directly on the

damper spindle (8 mm) and can be optionally secured with the Z-ARCM anti-rotation

clip 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.

Hidden synchronisation If the actuator drives to the lower end stop during ongoing operation, then it performs a

synchronisation of the positioning signal at DC 2 V. This ensures that the signal range also corresponds to the effective functional range in ongoing operation. The bottom end stop is actively approached as soon as the positioning signal is < DC 2.1 V. The actuator drives to the new specified position as soon as the positioning signal is once

again > DC 2.3 V.

Accessories

Mechanical accessoriesDescriptionTypeAnti-rotation clip for CM..Z-ARCMMagnet disengagementZ-MAPosition indicator CM..Z-PICM

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Electrical installation

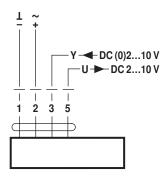


Notes

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

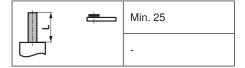
Wiring diagrams

AC/DC 24 V, modulating



Dimensions [mm]

Spindle length



Dimensional drawings

