

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 DC (0)2...10 V
- · Position feedback DC 2...10 V



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Technical data		
Electrical data	Nominal voltage Nominal voltage frequency Nominal voltage range	AC/DC 24 V 50/60 Hz AC 19.228.8 V / DC 19.228.8 V
	Power consumption in operation Power consumption in rest position Power consumption for wire sizing	1 W 0.5 W 1.5 VA
	Connection supply / control Parallel operation	Cable 1 m, 4 x 0.75 mm ² Yes (note the performance data)
Functional data	Torque motor Positioning signal Y Positioning signal Y note Operating range Y	Min. 2 Nm DC 010 V Input impedance 100 kΩ DC 210 V
	Position feedback U Position feedback U note Position accuracy	DC 210 V Max. 1 mA ±5%
	Direction of motion motor Direction of motion note Manual override	cw rotation Y = 0 V: right end stop, position 0 with magnet
	Angle of rotation Running time motor Sound power level motor Spindle driver	95°, fixed setting 75 s / 90° 35 dB(A) Universal spindle clamp 612.7 mm
	Position indication	Mechanically, pluggable (with integrated magnet for gear disengagement)
Safety	Protection class IEC/EN Protection class UL Degree of protection IEC/EN	III Safety extra-low voltage UL Class 2 Supply IP54
	Degree of protection NEMA/UL EMC Certification IEC/EN Certification UL	NEMA 2, UL Enclosure Type 2 CE according to 2004/108/EC IEC/EN 60730-1 and IEC/EN 60730-2-14 cULus according to UL 60730-1A, UL 60730-2-
	Mode of operation Rated impulse voltage supply / control	14 and CAN/CSA E60730-1:02 Type 1 0.8 kV
	Control pollution degree Ambient temperature Non-operating temperature Ambient humidity	3 -3050°C -4080°C 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.

0.29 kg

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.



Safety notes

- 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.
- · 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

Mode of operation The actuator is

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 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

Hidden synchronisation If t

Adjustable angle of rotation with mechanical end stops.

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	accessories
Micchaillean	accessories

Description	Туре
Anti-rotation clip for CM	Z-ARCM
Magnet disengagement	Z-MA
Position indicator CM	Z-PICM



Electrical installation

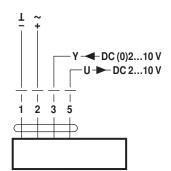


Notes

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

Wiring diagrams

AC/DC 24 V, modulating



Cable colours:

1 = black

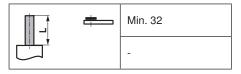
2 = red

3 = white

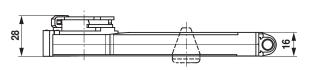
5 = orange

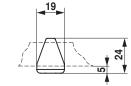
Dimensions [mm]

Spindle length



Dimensional drawings





Clamping range

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612.7	6/8/10	612.7

