

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

- For air control dampers up to approx. 1 m²
- Torque 5 Nm
- · Nominal voltage AC/DC 24 V
- Control: modulating DC 0 ... 10 V, position feedback DC 2 ... 10 V
- · Damper rotation: Form-fit 8 mm



Technische Daten				
Electrical data	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	1 W @ nominal torque		
	At rest	0.4 W		
	For wire sizing	2 VA		
	Connection	Cable 1 m, 4 x 0.75 mm ²		
Functional data	Torque (nominal torque)	Min. 5 Nm @ nominal voltage		
	Control Control signal Y Working range	DC 0 10 V, typical input impedance 100 k Ω DC 2 10 V		
	Position feedback (Measuring voltage)	DC 2 10 V, max. 1 mA		
	Position accuracy	±5%		
	Direction of rotation	Reversible with switch 0 / 1		
	Direction of rotation at Y = 0 V	at switch position 0 🖍 resp. 1 🥆		
	Manual override	Gearing latch disengaged with pushbutton, self-resetting		
	Angle of rotation	Max. 95°		
	Running time	150 s		
	Sound power level	Max. 35 dB (A)		
	Damper rotation	Form-fit 8 mm		
	Position indication	Mechanical, pluggable		
Safety	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		
Dimensions / Weight	Dimensions	See «Dimensions» on page 2		
· ·	Weight	Approx. 480 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 cable 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

Mode of operation The actuator is controlled by means of a standard control signal DC 0 ... 10 V. It opens to the

position dictated by this signal. The measuring voltage U allows the damper position (0 ... 100%) to be electrically indicated and serves as a follow-up control signal for other actuators.

Simple direct mounting Simple direct mounting on the damper spindle by form-fit. The actuator, with its hollow shaft, is

placed over the 8 mm square spindle of the damper and secured by two screws.

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.

Accessories

	Description	Data sheet	
Electrical accessories	Auxiliary switch SA, with 1 or 2 x EPU	T2 - SA	
	Feedback potentiometer PA, with 140, 500, 1 000, 2 800 or 5 000 Ω	T2 - PA	
	Range controller SBG24	T2 - SBG24	
	Positioner SG24	T2 - SG24	
	Digital position indication ZAD24	T2 - ZAD24	
Mechanical accessories	Shaft extension AV6-20	T2 - Z-LMA	

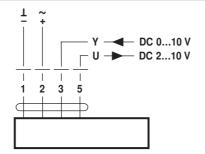
Electrical installation

Wiring diagrams

Notes

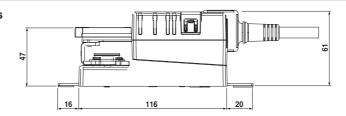
• Connection via safety isolating transformer.

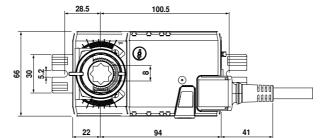
• Other actuators can be connected in parallel. Please note the performance data.



Dimensions [mm]

Dimensional drawings





Damper spindle	Length
	min. 20





