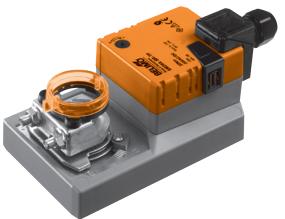


Modulating damper actuator for adjusting air dampers in ventilation and air-conditioning systems for building services installations

- For air dampers up to approx. 4 m²
- Torque 20 Nm
- Nominal voltage AC/DC 24 V
- Control: Modulating DC 0 ... 10 V
- · Position feedback DC 2 ... 10 V
- · with connecting terminals



Technical data			
Electrical data	Nominal voltage	AC 24 V, 50/60 Hz / DC 24 V	
	Nominal voltage range	AC 19.2 28.8 V / DC 21.6 28.8 V	
	Power consumption In operation	2 W @ nominal torque	
	At rest	0.4 W	
	For wire sizing	4 VA	
	Connection	Terminals 4 mm² (Cable Ø 4 10 mm, 4-core)	
Functional data	Torque (nominal torque)	Min. 20 Nm @ nominal voltage	
	Control Control signal Y	DC 0 10 V, typical input impedance 100 $k\Omega$	
	Operating range	DC 2 10 V	
	Position feedback (Measuring voltage U)	DC 2 10 V, max. 1 mA	
	Position accuracy	±5%	
	Direction of rotation	Reversible with switch 0 / 1	
	Direction of motion at Y = 0 V	In switch position 0 ₹ resp. 1 ₹	
	Manual override	Gearing latch disengaged with pushbutton, can be locked	
	Angle of rotation	Max. 95°	
		mechanical end stops	
	Running time	150 s / 90°∢	
	Sound power level	Max. 45 dB (A)	
	Position indication	Mechanical, pluggable	
Safety	Protection class	III Safety extra-low voltage / UL Class 2 Supply	
	Degree of protection	IP54 in any mounting position	
		NEMA 2, UL Enclosure Type 2	
	EMC	CE according to 2004/108/EC	
	Certification	cULus according to UL 60730-1A and UL 60730-2-14	
		and CAN/CSA E60730-1:02	
	Made of execution	Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14	
	Mode of operation	Type 1	
Rated impulse voltage		0.8 kV 3	
	Control pollution degree	-	
	Ambient temperature range	-30 +50 ° C -40 +80 ° C	
	Non-operating temperature		
Ambient humidity range		95% r.h., non-condensating	
	Maintenance	Maintenance-free	
Dimensions / Weight	Dimensions	See «Dimensions» on page 2	
	Weight	Approx. 1.05 kg	

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.

Modulating damper actuator, AC/DC 24 V, 20 Nm, with connecting terminals



Safety notes

(Continued)

· 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 with a standard modulating signal of DC 0 ... 10 V and travels to the position defined by the control 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

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

Manual override with push-button possible (the gear is disengaged for as long as the button is pressed or remains locked).

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

Electrical accessories

Description	Data sheet
Auxiliary switch SA	T2 - SA
Feedback potentiometer PA	T2 - PA
Range controller SBG24	T2 - SBG24
Position sensor SGA24, SGE24 and SGF24	T2 - SG24
Digital position indication ZAD24	T2 - ZAD24
Various accessories (clamps, shaft extensions etc.)	T2 - Z-SMA

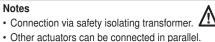
Mechanical accessories

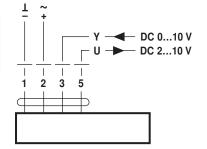
Electrical installation

Please note the performance data.

Wiring diagram

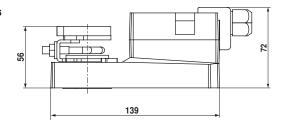


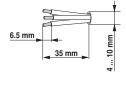




Dimensions [mm]

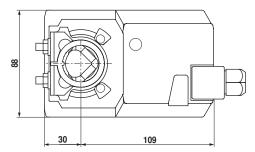
Dimensional drawings





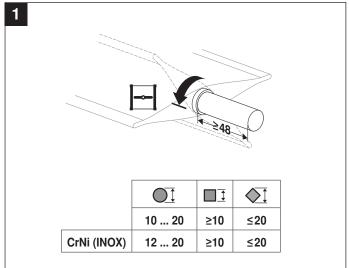
Damper spindle	Length	O <u>Ī</u>	I I	<u>♦</u> <u>Ī</u>
	≥48	10 20 ¹⁾	≥10	≤20
	≥20	10 20 ¹⁾	≥10	≤20

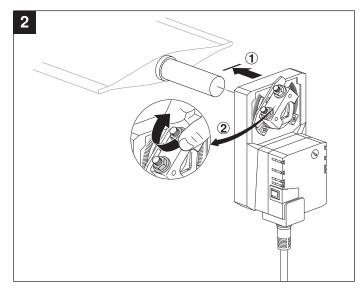
¹⁾ CrNi (INOX) 12 ... 20

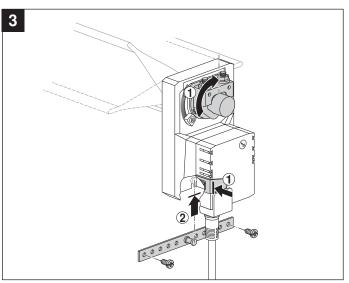


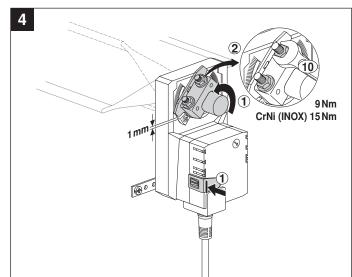


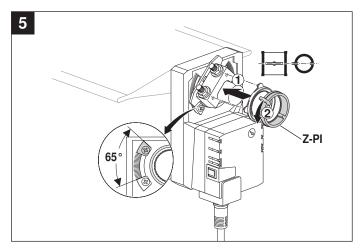


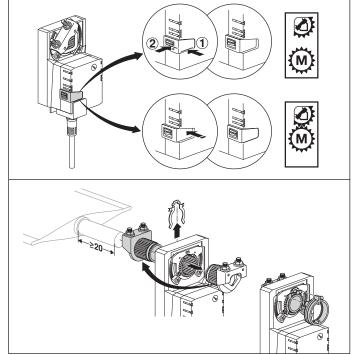




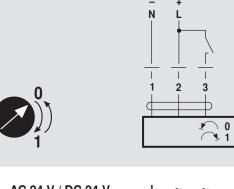


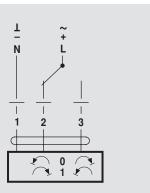






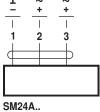


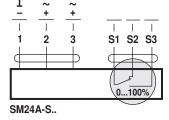


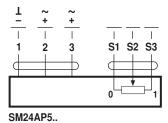




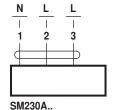
AC 24 V / DC 24 V

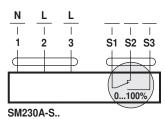


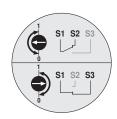




AC 100 ... 240 V









AC 24 V / DC 24 V

