

Technical data sheet

Spring return actuator with emergency function for adjusting air dampers in ventilation and air conditioning systems in buildings

- For air dampers up to approx. 4 m²
- Torque 20 Nm
- Nominal voltage AC/DC 24 V
- Control: Open-close
- Two integrated auxiliary switches



Technical data

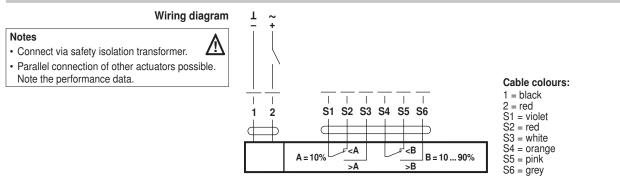
Electrical data	Nominal voltage	AC 24 V, 50/60 Hz / DC 24 V	
	Nominal voltage range	AC 19.2 28.8 V / DC 21.6 28.8 V	
	Power consumption In operation	5 W @ nominal torgue	
	At rest	2.5 W	
	For wire sizing	7.5 VA	
	Auxiliary switch	2 x SPDT, 1 mA 3 (0.5) A, AC 250 V 🗆	
		(1 x fix 10% / 1 x adjustable 10 90%)	
	Connection Motor	Cable 1 m, 2 x 0.75 mm ²	
	Auxiliary switch	Cable 1 m, 6 x 0.75 mm ²	
Functional data	Torque Motor	Min. 20 Nm @ nominal voltage	
	Spring return	Min. 20 Nm	
	Direction of rotation	Can be selected by mounting L / R	
	Manual override	With hand crank and interlocking switch	
	Angle of rotation	Max. 95°⊄, can be limited with	
		adjustable mechanical end stop	
	Running time Motor	≤75 s (0 20 Nm)	
	Spring return	≤20 s @ –20 50°C / max. 60 s @ –30°C	
	Sound power level Motor	≤45 dB (A)	
	Spring return	≤62 dB (A)	
	Service life	Min. 60,000 emergency positions	
	Position indication	Mechanical	
Safety	Protection class	III Extra low voltage / UL Class 2 Supply	
	Degree of protection	IP54	
		NEMA2, UL Enclosure Type 2	
	EMC	CE according to 2004/108/EC	
	Low-voltage directive	CE according to 2006/95/EC	
	Certification	cULus according to UL 60730-1A and UL 60730-2-14 and CAN/CSA E60730-1:02	
		Certified to IEC/EN 60730-1 and IEC/EN 60730-2-14	
	Mode of operation	Type 1.AA.B	
	Rated impulse voltage Actuator	0.8 kV	
	Auxiliary switch	2.5 kV	
	Control pollution degree	3	
	Ambient temperature	-30 +50 °C	
	Non-operating temperature	-40 +80°C	
	Ambient humidity	95% r.h., non-condensating	
	Maintenance	Maintenance-free	
Dimensions / Weight	Dimensions	See «Dimensions» on page 3	
Ū	Weight	Approx. 2.3 kg	
		··· ¥	

Spring return actuator, AC/DC 24 V, 20 Nm with two auxiliary switches



Safety notes				
Â	 The actuator is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport. It may only be installed by suitably 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 moves the damper to the operating position at the same time as tensioning the return spring. The damper is turned back to the emergency position by spring force if the supply voltage is interrupted.			
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 operation of the damper with the hand crank, locking in any position with the interlocking switch. Unlocking is manual or automatic by applying the operating voltage.			
Adjustable angle of rotation	Adjustable angle of rotation with mechanical end stop.			
High operational reliability	The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.			
Flexible signalization	The actuator has one auxiliary switch with a fixed setting and one adjustable auxiliary switch. They permit a 10% or 10 90% angle of rotation to be signalled.			

Electrical installation



Accessories

	Description	
Electrical accessories	Auxiliary swit	

Mechanical accessories

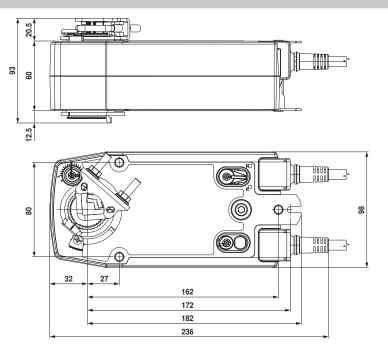
Auxiliary switch S2A-F

Various accessories (clamps, shaft extensions etc.)



Dimensions [mm]

Dimensional drawings



Variant 1a:

3/4"-spindle clamp (with insertion part) EU Standard

Damper spindle	Length	<u>O</u> I		<u>♦</u> Ī
	≥85	10 00	10	14 05 4
	≥15	1022	10	1425.4

Variant 1b:

1"-spindle clamp (without insertion part) EU Standard

Damper spindle	Length	<u>O</u> <u>I</u>	Ī
	≥85	1925.4	1218
	≥15	(26.7)	1210

Variant 2:

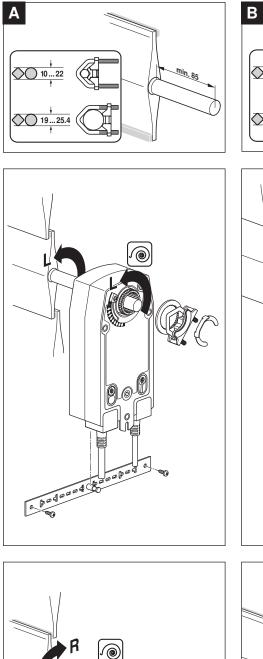
1/2"-spindle clamp (optional via configuration)

Damper spindle	Length	OI	<u>♦Ī</u>
	≥85	1019	1420
	≥15		



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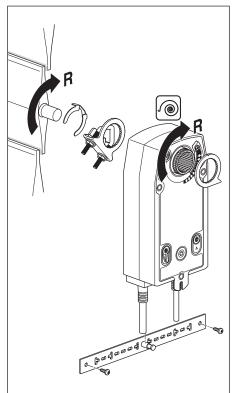
√ 19...25.4

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Min. 15

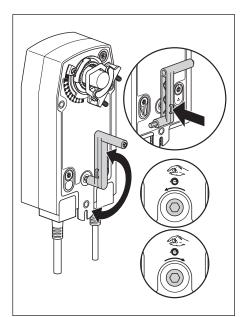
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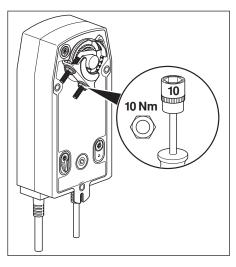
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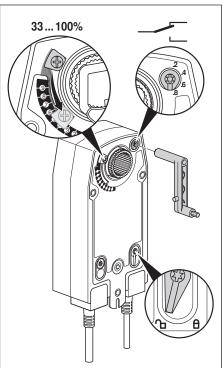


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