

Modulating damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 1 m<sup>2</sup>
- Torque motor 5 Nm
- Nominal voltage AC/DC 24 V
- Control modulating 2...10 V
- Position feedback 2...10 V



# Technical data

Electrical data	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	0.4 W
	Power consumption for wire sizing	2 VA
	Connection supply / control	Cable 1 m, 4x 0.75 mm <sup>2</sup>
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	5 Nm
	Operating range Y	210 V
	Input impedance	100 kΩ
	Position feedback U	210 V
	Position feedback U note	Max. 1 mA
	Position accuracy	±5%
	Direction of motion motor	selectable with switch 0/1
	Direction of motion note	Y = 0 V: At switch position 0 (ccw rotation) /
		1 (cw rotation)
	Manual override	with push-button, can be locked
	Angle of rotation	Max. 95°
	Angle of rotation note	can be limited on both sides with adjustable mechanical end stops
	Running time motor	150 s / 90°
	Sound power level, motor	35 dB(A)
	Mechanical interface	Universal shaft clamp 620 mm
	Position indication	Mechanical, pluggable
Safety data	Protection class IEC/EN	III, Safety Extra-Low Voltage (SELV)
	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	EMC	CE according to 2014/30/EU
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14



Safety c	Safety data	UL Approval	cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 The UL marking on the actuator depends on the production site, the device is UL-compliant in any case
		Hygiene test	According to VDI 6022 Part 1 / SWKI VA 104-01, cleanable and disinfectable, low emission
		Type of action	Туре 1
		Rated impulse voltage supply / control	0.8 kV
		Pollution degree	3
		Ambient humidity	Max. 95% RH, non-condensing
		Ambient temperature	-3050°C [-22122°F]
		Storage temperature	-4080°C [-40176°F]
		Servicing	maintenance-free
	Weight	Weight	0.47 kg
<u>/</u> •		<ul> <li>aggressive gases interfere directly with the conditions remain within the thresholds at Only authorised specialists may carry out installation regulations must be complied.</li> <li>The device may only be opened at the matcan be replaced or repaired by the user.</li> <li>Cables must not be removed from the device to calculate the torque required, the spector concerning the cross-section and the desiventilation conditions must be observed.</li> <li>The device contains electrical and electronic device to concerning the cross section and the desiventilation conditions must be observed.</li> </ul>	e that no (sea) water, snow, ice, insolation or ne device and that it is ensured that the ambient according to the data sheet at any time. installation. All applicable legal or institutional d with during installation. anufacturer's site. It does not contain any parts that
Product features			
Оре	erating mode	The actuator is connected with a standard control signal of 010 V and drives to the position defined by the control signal. Measuring voltage U serves for the electrical display of the damper position 0100% and as control signal for other actuators.	
Simple dire		damper position 0 100% and as control sig	gnal for other actuators.

- **Manual override** Manual override with push-button possible (the gear train is disengaged for as long as the button is pressed or remains locked).
- Adjustable angle of rotationAdjustable angle of rotation with mechanical end stops.High functional reliabilityThe actuator is overload protected, requires no limit switches and automatically stops when<br/>the end stop is reached.



Electrical accessories	Description	Туре
	Auxiliary switch 1x SPDT add-on	S1A
	Auxiliary switch 2x SPDT add-on	S2A
	Feedback potentiometer 140 Ω add-on	P140A
	Feedback potentiometer 1 kΩ add-on	P1000A
	Feedback potentiometer 10 kΩ add-on	P10000A
	Signal converter voltage/current 100 k $\Omega$ 420 mA, Supply AC/DC 24 V	Z-UIC
	Range controller for wall mounting	SBG24
	Positioner for wall mounting	SGA24
	Positioner for built-in mounting	SGE24
	Positioner for front-panel mounting	SGF24
	Positioner for wall mounting	CRP24-B1
Mechanical accessories	Description	Туре
	Shaft extension 170 mm ø10 mm for damper shaft ø616 mm	AV6-20
	Shaft clamp one-sided, clamping range ø620 mm, Multipack 20 pcs.	K-ELA
	Shaft clamp one-sided, clamping range ø610 mm, Multipack 20 pcs.	K-ELA10
	Shaft clamp one-sided, clamping range ø613 mm, Multipack 20 pcs.	K-ELA13
	Shaft clamp one-sided, clamping range ø616 mm, Multipack 20 pcs.	K-ELA16
	Anti-rotation mechanism 180 mm, Multipack 20 pcs.	Z-ARS180
	Form fit insert 8x8 mm, Multipack 20 pcs.	ZF8-LMA
	Form fit insert 10x10 mm, Multipack 20 pcs.	ZF10-LMA
	Form fit insert 12x12 mm, Multipack 20 pcs.	ZF12-LMA
	Form fit insert 8x8 mm, with angle of rotation limiter and position indication, Multipack 20 pcs.	ZFRL8-LMA
	Form fit insert 10x10 mm, with angle of rotation limiter and position indication, Multipack 20 pcs.	ZFRL10-LMA
	Form fit insert 12x12 mm, with angle of rotation limiter and position indication, Multipack 20 pcs.	ZFRL12-LMA
	Position indicator, Multipack 20 pcs.	Z-PI

#### Elect



# Supply from isolating transformer.

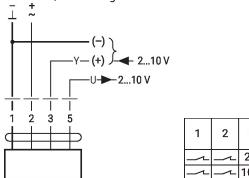
Parallel connection of other actuators possible. Observe the performance data.

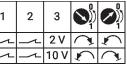
#### Wire colours:

- 1 = black
- 2 = red
- 3 = white
- 5 = orange

# Wiring diagrams

AC/DC 24 V, modulating







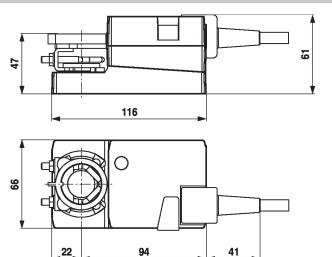
#### Dimensions

### Spindle length

┍┿┖──	Min. 37
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### **Clamping range**

OI		
620	≥6	≤20



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