

Technical data sheet

Modulating damper actuator for adjusting dampers in technical building installations

- Air damper size up to approx. 4 m²
- Nominal torque 20 Nm
- Nominal voltage AC/DC 24 V
- Control Modulating DC (0)2...10 V
- Position feedback DC 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	2 W
	Power consumption in rest position	0.4 W
	Power consumption for wire sizing	4 VA
	Connection supply / control	Cable 1 m, 4 x 0.75 mm ²
	Parallel operation	Yes (note the performance data)
Functional data	Torque motor	Min. 20 Nm
	Positioning signal Y	DC 010 V
	Positioning signal Y note	Input impedance 100 kΩ
	Operating range Y	DC 210 V
	Position feedback U	DC 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	Gear disengagement 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	45 dB(A)
	Spindle driver	Universal spindle clamp reversible 1020 mm
	Position indication	Mechanically, pluggable
Safety	Protection class IEC/EN	III Safety extra-low voltage
	Protection class UL	UL Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2, UL Enclosure Type 2
	EMC	CE according to 2004/108/EC
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Certification UL	cULus according to UL 60730-1A, UL 60730-2- 14 and CAN/CSA E60730-1:02
	Mode of operation	Type 1
	Rated impulse voltage supply / control	0.8 kV
	Control pollution degree	3
	Ambient temperature	-3050°C
	Non-operating temperature	-4080°C
	Ambient humidity	95% r.h., non-condensing
	Maintenance	Maintenance-free
Weight	Weight approx.	1.1 kg



Safety notes		
	 The device must not be used outside the specifi in aircraft or in any other airborne means of tran Outdoor application: only possible in case that n or aggressive gases interfere directly with the adambient conditions remain at any time within the sheet. Only authorised specialists may carry out install institutional installation regulations must be com The device may only be opened at the manuface parts that can be replaced or repaired by the us Cables must not be removed from the device. To calculate the torque required, the specification manufacturers concerning the cross-section, the ventilation conditions must be observed. The device contains electrical and electronic con of as household refuse. All locally valid regulation observed. 	asport. no (sea)water, snow, ice, insolation ctuator and that is ensured that the e thresholds according to the data lation. All applicable legal or aplied during installation. cturer's site. It does not contain any er. ons supplied by the damper e design, the installation site and th mponents and must not be dispose
Product features		
Mode of operation	The actuator is connected with a standard modula to the position defined by the positioning signal. M electrical display of the damper position 0100% actuators.	leasuring voltage U serves for the
Simple direct mounting	Simple direct mounting on the damper spindle with supplied with an anti-rotation device to prevent the	
Manual override	Manual override with push-button possible (the ge button is pressed or remains locked).	ear is disengaged for as long as the
High functional reliability	The actuator is overload protected, requires no lin when the end stop is reached.	nit switches and automatically stops
Adjustable angle of rotation	Adjustable angle of rotation with mechanical end s	stops.
Accessories		
	Description	Туре

	Description	Туре
Electrical accessories	Auxiliary switch, add-on, 1 x SPDT	S1A
	Auxiliary switch, add-on, 2 x SPDT	S2A
	Auxiliary switch, add-on, 2 x SPDT, grey	S2A GR
	Feedback potentiometer 140 Ohm, add-on	P140A
	Feedback potentiometer 140 Ohm, add-on, grey	P140A GR
	Feedback potentiometer 200 Ohm, add-on	P200A
	Feedback potentiometer 500 Ohm, add-on	P500A
	Feedback potentiometer 500 Ohm, add-on, grey	P500A GR
	Feedback potentiometer 1 kOhm, add-on	P1000A
	Feedback potentiometer 2.8 kOhm, add-on	P2800A
	Feedback potentiometer 2.8 kOhm, add-on, grey	P2800A GR
	Feedback potentiometer 1 kOhm, add-on, grey	P1000A GR
	Feedback potentiometer 5 kOhm, add-on	P5000A
	Feedback potentiometer 5 kOhm, add-on, grey	P5000A GR
	Feedback potentiometer 10 kOhm, add-on	P10000A
	Feedback potentiometer 10 kOhm, add-on, grey	P10000A GF
	Signal converter voltage/current, supply AC/DC 24V	Z-UIC
	Digital position indicator for front-panel mounting, 099%, front mass 72 x 72 mm	ZAD24
	Range controller for wall mounting, adjustable electron. Min./max. angle of rotation limitation	SBG24
	Positioner for wall mounting, range 0100%	SGA24
	Positioner in a conduit box, range 0100%	SGE24



Accessories

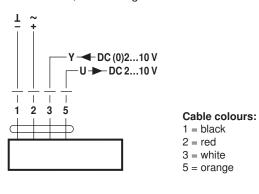
	Description	Туре
	Positioner for front-panel mounting, range 0100%	SGF24
	Positioner for wall mounting, range 0100%	CRP24-B1
	Description	Туре
Mechanical accessories	Actuator arm, for standard spindle clamp (reversible) K-SA	AH-20
	Actuator arm, for one-sided spindle clamp K-ENSA	AH-25
	Shaft extension 250 mm for CrNi (INOX)	AV12-25-I
	Shaft extension 250 mm, for damper spindles Ø 825 mm	AV8-25
	Straight ball joint with M8, suitable for damper crank arms KH8	KG10A
	Angled ball joint with M8, suitable for damper crank arms KH8	KG8
	Damper crank arm, for damper spindles	KH8
	Spindle clamp, one side for NMA, SMA	K-ENSA
	Spindle clamp, one side for SMA	K-ENSA-I
	Spindle clamp, reversible for SMA and NMQ	K-SA
	Universal mounting bracket 180 mm	Z-ARS180
	Universal mounting bracket 230 mm	Z-ARS230
	Angle of rotation limiter, for K-NA	20334-00001
	Form fit insert 10x10 mm, for NMA / SMA	ZF10-NSA
	Form fit insert 12x12 mm, for NMA / SMA	ZF12-NSA
	Form fit insert 15x15 mm	ZF15-NSA
	Form fit insert 16x16 mm, for NMA / SMA	ZF16-NSA
	Mounting kit for linkage operation, SMA for flat installation	ZG-SMA
	Position indication for LMA, NMA, SMA, GMA	Z-PI
	Base plate extension from SMA to SM/AM/SMD24R	Z-SMA

Electrical installation

Notes	Connection via safety isolating transformer.Parallel connection of other actuators possible. Observe the performance data.
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Wiring diagrams

AC/DC 24 V, modulating





Dimensions [mm]

Spindle length

	Min. 48
	Min. 20

Clamping range

	<u>O</u> I		
	1020	≥10	≤20
CrNi (INOX)	1220	≥10	≤20

With utilisation of a round spindle made of CrNi (INOX): Ø 12...20 mm

