

S T A N D A R D

2- and 3-POINT Actuators

2.22

Application

The JOVENTA STANDARD electric damper-actuator series is designed to operate air dampers in ventilation and air conditioning systems.

The compact design and universal adapter fitted with limitation of rotation angle make this JOVENTA actuator highly versatile.

Key features

- 2- or 3-point control
- Load-independent running time
- Up to 5 actuators in parallel operation possible
- Plug-in terminal block connection
- Simple direct-mount with universal adapter on Ø 10 mm to 20 mm shaft or square shaft from 10 mm to 16 mm.
48 mm minimum damper shaft length
- Selectable direction of rotation
- Limitation of rotation angle
- Manual release button
- 2 adjustable auxiliary switches
See back page for settings
- Automatic shut-off at end position (overload switch)
- Energy saving at end positions
- Actuators available with 1 m halogen-free cable
- Customized versions available
- Devices meet CE requirements

Accessories

- ZK damper linkage selection
- ZKG ball joints
(see product sheet 6.10)

Nomenclature/Specification/Technical data

DAG1	24 VAC/VDC	
DAG1.S	24 VAC/VDC	with 2 auxiliary switches
DAG1.P1	24 VAC/VDC	with 1000 Ω feedback potentiometer
DAG1.P2	24 VAC/VDC	with 140 Ω feedback potentiometer
DAG2	230 VAC	
DAG2.S	230 VAC	with 2 auxiliary switches
DAG2.P1	230 VAC	with 1000 Ω feedback potentiometer
DAG2.P2	230 VAC	with 140 Ω feedback potentiometer
.....K		with 1 m halogen-free cable

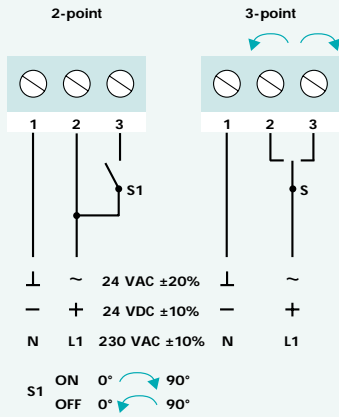
Actuator	Type	DAG1.(S)(P..)	DAG2.(S)(P..)
Torque	Nm	32	32
Damper area*	m ²	6.0	6.0
Running time	sec	140	140
Supply voltage	V	24 VAC/VDC	230 VAC
Frequency	Hz	50-60	50-60
Power consumption			
- Running	W	4.0	5.5
- At end position	W	0.5	1.0
Dimensioning	VA / I max	3.0 / 3.4 A @ 2 msec	4.5 / 0.25 A @ 2 msec
Weight	Kg	1.1	1.2
Control signal		2-point or 3-point	
Position signal		Potentiometer	
Angle of rotation / working range		90° (93° mech.)	
Angle of rotation / limitation		5°...85° in 5° < steps	
Service lifetime		60,000 rotations	
Auxiliary switches		3 (1.5) Amp 230 V	
Setting range / adjustable		5°...85° <	
Potentiometer load		0.5 W	
Tolerance		±10%	
Noise level		45 dB (A)	
Protection class		II	
Degree of protection		IP 40	
Cable aperture connection		M16 x 1.5	
Mode of action		Type 1	
Ambient conditions			
- Operating temperature		-20...+50°C as per IEC 721-3-3	
- Storage temperature		-30...+70°C as per IEC 721-3-2	
- Humidity		5...95% rH (non condensing)	
Service		Maintenance-free	
Standards		Mechanics	EN 60 529 / EN 60 730-2:14
		Electronics	EN 60 730-2:14
		EMC Emissions	EN 50 081-1:92 / IEC 61 000-6-3:96
		EMC Immunity	EN 50 082-2:95 / IEC 61 000-6-2:99

STANDARD

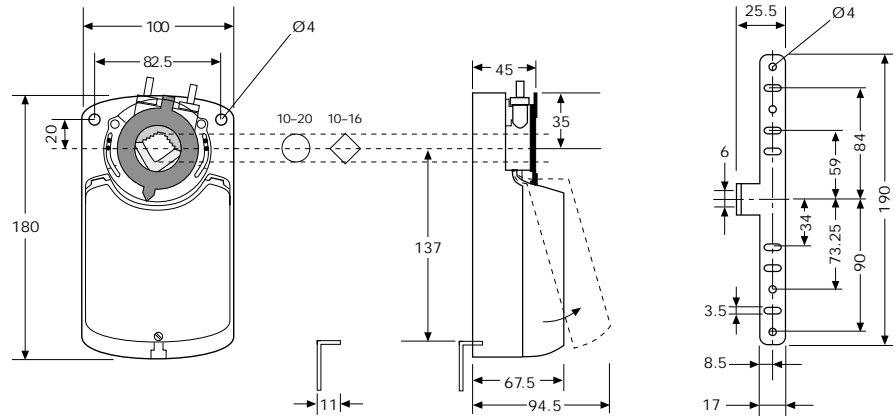
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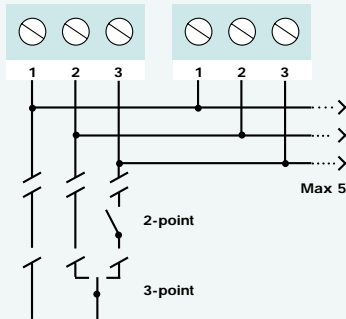
Wiring diagram



Dimensions in mm



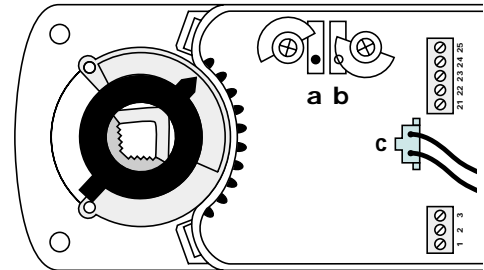
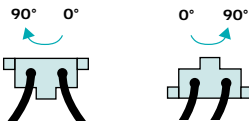
Parallel connections



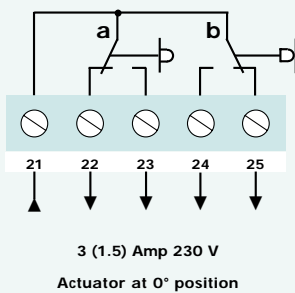
Changing the direction of rotation

The direction of rotation can be changed by reversing plug **c**

Factory setting



Auxiliary switches (S)

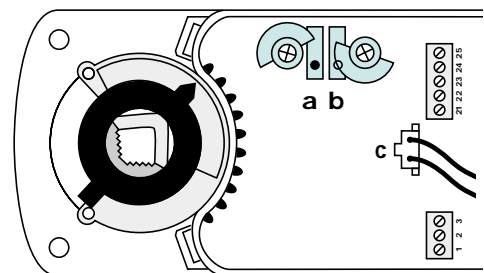


Setting the auxiliary switches

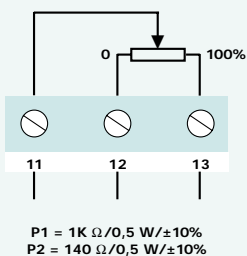
Factory setting

Switch **a** at 10°
Switch **b** at 80°

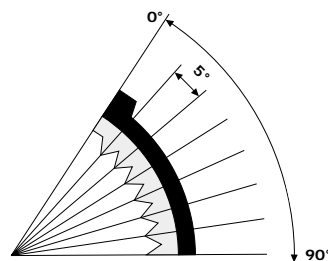
The switching position can be manually changed to any required position by turning the ratchet.



Potentiometer (P)



Limitation of rotation angle



Adapter release

