



# **SPRINGBACK**

## **3-POINT Spring-return actuator**

Nomenclature/Specification/Technical data

AC/DC24V

DA1.4F

3.11

#### Application

The JOVENTA SPRINGBACK electric, spring return damper-actuator series has been specially developed for the motorized operation of safety air dampers (anti-icing) in air conditioning systems, smoke evacuation dampers and sealing dampers.

When the control signal is applied the actuator drives the damper to the operational position, while evenly tensioning the integrated spring.

After a power failure the stored energy in the spring immediately brings the damper to the safety position.

Manual operation is automatically cancelled when the actuator is in electrical operation.

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

#### **Key features**

- 3-point control
- Up to 5 actuators in parallel operation possible
- Plug-in terminal block connection
   Simple direct mounting with universal adapter on Ø 10 mm
- to 20 mm shaft or 10 mm to 16 mm square shaft. 77 mm min shaft length
- Selectable direction of rotation
- Limitation of rotation angle
- Manual positioning with crank handle
- 2 adjustable auxiliary switches See back page for settings
- Automatic shut-off at end position (overload switch)
- Feedback potentiometer
- Feedback polennonieler
   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 data sheet 6.10)

# DA1.4FS AC/DC24V with 2 auxiliary switches DA1.4FP1 AC/DC24V with 1k Ω feedback potentiometer DA1.4FP2 AC/DC24V with 140 Ω feedback potentiometer ......K with 1 m halogen-free cable

Actuator	DA1.4F(S)(P)	
Torque	16 Nm	
Damper area*	3.0 m <sup>2</sup>	
Running time Motor	90120 s	
Running time Spring return	10 s	
Supply voltage	AC/DC24V	
Frequency	50-60 Hz	
Power consumption		
- Running	10.0 W	
- At end position	4.0 W	
Dimensioning	18.0VA / 8A @ 2 ms	
Weight	2.7 kg	
Control signal	3-point	
Position signal	Potentiometer	
Angle of rotation / working range	90° (93° mech.)	
Angle of rotation / limitation	0°30° and 90°60°	
Service lifetime	60,000 rotations	
Auxiliary switches	3(1.5)A, AC230V	
Setting range / adjustable	5°85° < infinity	
Potentiometer load	0.5 W	
Tolerance	±10%	
Noise level	50 d B (A)	
Protection class	ll	
Degree of protection	IP 54	
Cable aperture connection	PG11	
Mode of action	Туре 1	
Ambient conditions		
- Operating temperature	–20+50°C / IEC 721-3-3	
- Storage temperature	-30+60°C / IEC 721-3-2	
- Humidity	595% r.F.	
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

\* Caution: Please note damper manufacturer's information concerning the open/close torque.



# SPRINGBACK

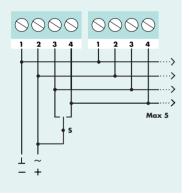
## **3-POINT Spring-return actuator**

3.11

# 

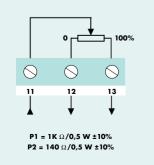
When changing the direction of rotation several times in quick succession, allow a delay of 1 sec after each change.

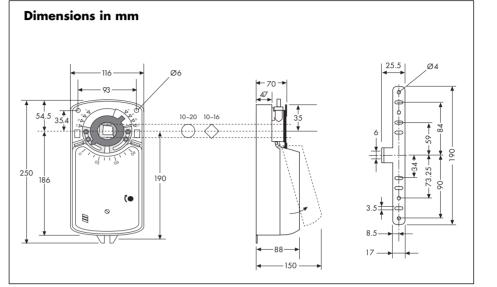
#### **Parallel connection**



Auxiliary switches (S)

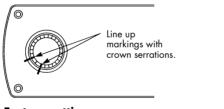
Potentiometer





#### Changing the direction of rotation

The change in rotation direction is archieved by removing the adapter bush from one side and replacing it in the other side.



Factory setting: Clockwise rotation.

#### Auxiliary switch setting

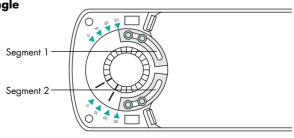
Factory setting

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

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

#### Limitation of rotation angle

The 90° angle of rotation/working range can, through segments 1 and 2, be reduced by up to 30° from both end positions.



4

Δ

Crank

handle

Scale 0...90°< (10°< graduation)

