

## Technical data sheet

# 227S-024-05

## Rotary actuator

### Description

**Rotary actuator for adjusting dampers in HVAC installations**

- Running time            20 s / 90°
- Torque                    5 Nm
- Nominal voltage        24 VAC/DC
- Control                  2-/3-point
- Damper size            up to approx. 1 m<sup>2</sup>
- Damper coupling       clamp  
                                   $\varnothing$  8-15 mm /  $\varnothing$  8-20 mm



### Technical data

#### Electrical data

Nominal voltage	24 VAC/DC, 50/60 Hz
Nominal voltage range	19...29 VAC/DC
Power consumption motor (motion)	3,5 W
Power consumption standby (end position)	1,5 W
Wire sizing	5,5 VA
Control	2-/3-point
Feedback signal	-
Auxiliary switch	-
Contact load	-
Switching point	-
Connection motor	cable 1000 mm, 3 x 0,75 mm <sup>2</sup> (halogen free)
Connection feedback potentiometer	-
Connection auxiliary switch	-
Connection GUAC	-

#### Functional data

Torque	> 5 Nm
Damper size	up to approx. 1 m <sup>2</sup>
Synchronised speed	±5%
Direction of rotation	selected by switch
Manual override	gearing latch disengaged with pushbutton, self-resetting
Angle of rotation	0°...max. 95° can be limited with adjustable mechanical end stops
Running time	< 20 s / 90°
Sound power level	< 45 dB(A)
Shaft coupling	clamp $\varnothing$ 8-15 mm / $\varnothing$ 8-20 mm

## Technical data

### Functional data

Position indication	mechanical with pointer
Service life	> 60 000 cycles (0°...95°...0°)

### Safety

Protection class	III (safety extra-low voltage)
Degree of protection	IP 54 (cable downwards)
EMC	CE (2014/30/EU)
LVD	CE (2014/35/EU)
RoHS	CE (2011/65/EU)
Mode of operation	Typ 1 (EN 60730-1)
Rated impulse voltage	0,8 kV (EN 60730-1)
Control pollution degree	3 (EN 60730-1)
Ambient temperature normal operation	-30°C...+50°C
Storage temperature	-30°C...+80°C
Ambient humidity	5...95% r.H., non condensing (EN 60730-1)
Maintenance	maintenance free

### Dimensions / Weight

Dimensions	117 x 67 x 66 mm
Weight	350 g

## Operating mode / Properties

### Operating mode

2 point:

Through connecting the power supply to BU+BN (1+2) and the direction switch on "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3 point:

Through connecting the power supply to BU+BN (1+2) and the direction switch on "R" moves the actuator to position 1. Is BU+BK (1+3) connected to the power supply the actuator is moving to position 0.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

### Direct mounting

Simple direct mounting on the damper shaft with a clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

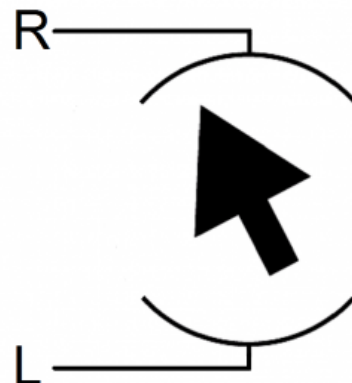
### Manual override

Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed).

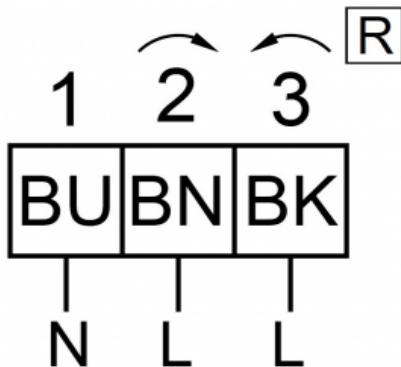
### Mode switch

Mode switch with two positions at the housing:

R: rotary rotation right / clockwise  
L: rotary rotation left / counter clockwise



## Connection / Safety remarks

**Safety remarks**

- Caution: power supply voltage!
- The device is not allowed to be used outside the specified field of application, especially in airplanes.
- 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.
- The device is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- When calculating the required torque, the specifications supplied by the damper manufacturer's (cross-section, design, installation site), and the air flow conditions must be observed.

## Technical drawing

