

#### Technical data sheet

# 227-024-08E(-S1) Rotary Actuator

## **Description**

Rotary actuator for adjusting dampers in HVAC installations.

Running time
Torque
Nominal voltage
Control
20 s / 90°
8 Nm
24 VAC/DC
2-/3-point

Damper size up to approx. 1.6 m²

Damper coupling clamp

♦ 8-15 mm / Ø 8-20 mm



## Technical data

### Electrical data

Nominal voltage	24 VAC/DC, 50/60Hz	
Nominal voltage range	1929 VAC/DC	
Power consumption motor (motion)	4.0 W	
Power consumption standby (end position)	1.0 W	
Wire sizing	6.5 VA	
Control	2-/3-point	
Connection motor	cable 1000 mm, 3 x 0. 75 mm² (halogen free)	
Connection feedback potentiometer	-	
Connection GUAC	-	
Feedback signal	-	
227-024-08E-SI		
Auxiliary switch	- 1 x SPDT (ag)	
Contact load	- 5 (2.5) A, 250 VAC	
Switching point	- 095°	
Connection auxiliary switch	cable 1000 mm, 3 x 0. 75 mm² (halogen free)	

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Functional data		
	Torque	8 Nm
	Damper size	up to approx. 1 m²
	Synchronized 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 ◊ 8-15 mm / Ø 8-20 mm
	Position indication	mechanical with pointer
	Service life	> 100,000 cycles (0°95°0°)
Safety		
	Protection class	III (safety extra-low voltage)
	Protection class auxiliary switch	II (double insulation)
	Degree of protection	IP 54 (cable downwards)
	EMC	CE (2014/30/EU)
	LVD	CE (2014/35/EU)
	RoHS	CE (2011/65/EU - 2015/863/EU - 2017/2102/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage supply / control	0.8 kV
	Rated impulse voltage auxiliary switch	4 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	595% r.H., non-condensing
	Maintenance	Maintenance free
Dimensions/Weight		
	Dimensions	117 x 67 x 66 mm
	Weight	350 g

Weight (S1)

510 g

## Functionality / Properties

#### Operating mode

#### 2 point:

Connect power supply to wire 1+2, actuator drives to position 1. Is also wire 3 connected to the power supply, actuator drives to position 0.

#### 3 point:

Connect power supply to wire 1+2, actuator drives to position 1. Is wire 1+3 connected to the power supply, actuator drives 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, protection against rotating with enclosed anti-rotation lock or rather at intended attachment points.

#### Manual override

Manual override with self resetting pushbutton possible (the gear is disengaged as long as the button is pressed).

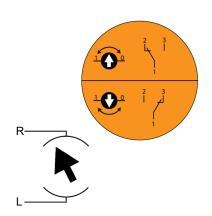
#### Signaling

The integrated auxiliary switch is freely adjustable in the angle of 0 - 95°. There is activated corresponding to the adjusted angle. The damper position can be checked by the mechanicel pointer.

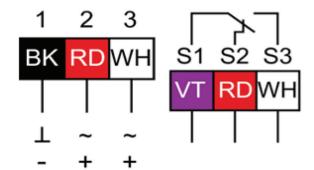
#### Mode switch

Mode switch with two positions at the housing:

R: rotary rotation right / clockwise L: rotary rotation



#### **Connector / Security Note**



#### 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, installationsite), and the air flow conditions must be observed.



## **Technical Drawing**

