

Technical data sheet

227-024-10

Rotary actuator

Description

Rotary actuator for adjusting dampers in HVAC installations

- **Running time** 150 s / 90°
- **Torque** 10 Nm
- **Nominal voltage** 24 VAC/DC
- **Control** 2-/3-point
- **Damper size** up to approx. 2 m²
- **Shaft coupling** clamp
∅ 8-15 mm / Ø 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)	2,0 W
Power consumption standby (end position)	1,0 W
Wire sizing	3,5 VA
Control	2-/3-point
Feedback signal	-
Auxiliary switch	-
Contact load	-
Switching point	-
Connection motor	cable 1000 mm, 3 x 0,75 mm ² (halogen free)
Connection feedback potentiometer	-
Connection auxiliary switch	-
Connection GUAC	-

Functional data

Torque	> 10 Nm
Damper size	up to approx. 2 m ²
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	< 150 s / 90°
Sound power level	< 35 dB(A)
Shaft coupling	clamp ∅ 8-15 mm / Ø 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 - 2015/863/EU - 2017/2102/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	115 x 65 x 61 mm
Weight	350 g

Operating mode / 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.

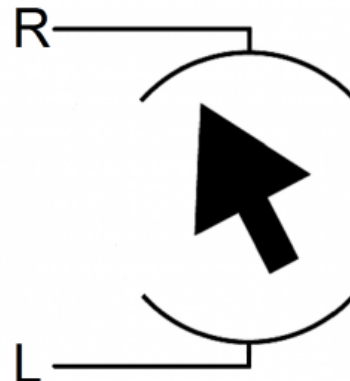
Manual override

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

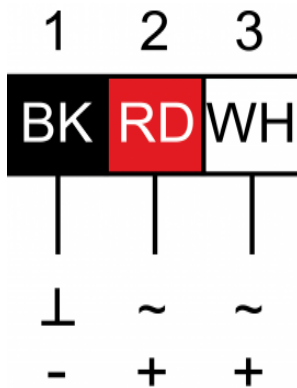
Mode switch

Mode switch with two positions at the housing:

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



Connection / Safety remarks

**Safety remarks**

- Connect via safety isolation transformer!
- 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

