Technical data sheet

363-024-60-S2/8F14
Rotary Actuator

Description

Rotary actuator for adjusting dampers in HVAC installations.

- Running time 150 s / 90°
- Torque 60 Nm
- Nominal voltage 24V AC/DC
- Control 2 -/3-point
- Auxiliary switch 2x freely adjustable
- Damper size up to approx. 10 m²
- Shaft coupling form fit 14 mm (8F14)

Technical data

Electrical data

Nominal voltage	24V AC/DC, 50/60Hz
Nominal voltage range	19...29 VAC/DC
Power consumption motor (motion)	13.5 W
Power consumption standby (end position)	1.5 W
Wire sizing	16.5 VA
Control	2-/3-point
Feedback signal	-
Auxiliary switch	2 x SPDT (Ag)
Contact load	5 (2,5) A, 250 VAC
Switching point	0...95°
Connection motor	cable 1000 mm, 3 x 0.75 mm² (halogen free)
Connection auxiliary switch	cable 1000 mm, 6 x 0,75 mm² (halogen free)

Functional data	
Torque	60 Nm
Damper size	up to approx. 10 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°
Running Time	150 s / 90°
Sound power level	< 45 dB(A)
Shaft coupling	form fit 14 mm (8F14)
Service life	> 60'000 cycles (0° - 95° - 0°)
Safety	
Protection class	III (safety extra-low voltage)
Degree of protection	IP 54
EMC	CE (2014/30/EU)
LVD	CE (2014/35/EU)
RoHS	CE (2011/65/EU - 2015/863/EU 2017/2102/EU)
Operarting mode	
Operating mode	S3-50% ED (EN 60034-1)
Mode of operation	Typ 1 (EN 60730-1)
Rated impulse voltage supply / control	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	193 x 96 x 60 mm
Weight	1750 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 selfresetting pushbutton possible (the gear is disengaged as long as the button is pressed).

Signaling

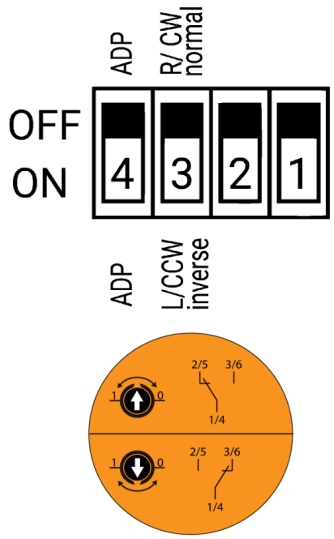
The two integrated auxiliary switches are freely adjustable in the angle of 0 - 95°. There are activated corresponding to the adjusted angle. The damper position can be checked by the mechanicel pointer.

Mode switch

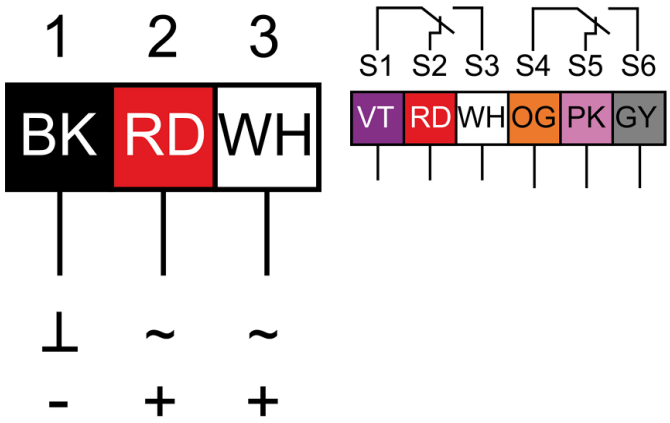
DIP switch under the case cover

Adaption drive

- Actuator power off
- Setting up the mechanical end stops
- Actuator power on
- Adaption enable
- Actuator drives to position 0
- Actuator drives to position 1
- Adaption disable, if desired angular range reached or rather if actuator reached endstop



Connector / Security Note



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.
- Cables must not be removed from the device.
- The cable of this actuator cannot be replaced. If the cable is damaged, the actuator should be scrapped.
- 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