

361-024-10(-S2) Spring return actuator

Description

Spring return actuator for adjusting dampers in HVAC Installations.

- Running time motor 75 s / 90°
- Running time spring 20 s / 90°
- Torque motor 10 Nm
- Torque spring 10 Nm
- Nominal voltage 24 VAC/DC
- Control 2-point
- Auxiliary switch 2x freely adjustable
- Damper size up to approx. 2 m²
- Shaft coupling Clamp
◇ 9-18 mm / Ø 9-26 mm



Technical data

Electrical data

Nominal voltage	24 VAC/DC, 50/60Hz
Nominal voltage range	19...29 VAC/DC
Power consumption motor (motion)	5.0 W
Power consumption standby (end position)	2.0 W
Wire sizing	7.0 VA
Control	2-point
Connection motor	cable 1000 mm, 2 x 0.75 mm² (halogen free)
Connection feedback potentiometer	-
Connection GUAC	-
Feedback signal	-
361-024-10-S2	
Auxiliary switch	2 x SPDT (ag)
Contact load	5 (2.5) A, 250 VAC
Switching point	0°...95°
Connection auxiliary switch	cable 1000 mm, 6 x 0.75 mm² (halogen free)

Functional data

Torque	10 Nm
Torque spring	10 Nm
Damper size	up to approx. 2 m ²
Synchronized speed	±5%
Direction of rotation	selected by mounting
Manual override	manual operation
Angle of rotation	0°...max. 95° can be limited with adjustable mechanical end stops
Running Time motor	75 s / 90°
Running time spring	20 s / 90°
Sound power level motor	< 45 dB(A)
Sound power level spring	< 65 dB(A)
Shaft coupling	clamp ∅ 9-18 mm / ∅ 9-26 mm
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
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 (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 (EN60730-1)
Maintenance	Maintenance free

Dimensions/Weight

Dimensions	193 x 96 x 60 mm
Weight	1600 g
Weight (-S2)	1700 g

Functionality / Properties

Operating mode

Connect power supply to wire 1+2, actuator drives to position 1 while the pre-tensioned spring is wound up the same time. If the power supply is interrupted, actuator drives back to position 0 by spring power. The actuator is still maintaining the minimum torque at the damper spindle.

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.

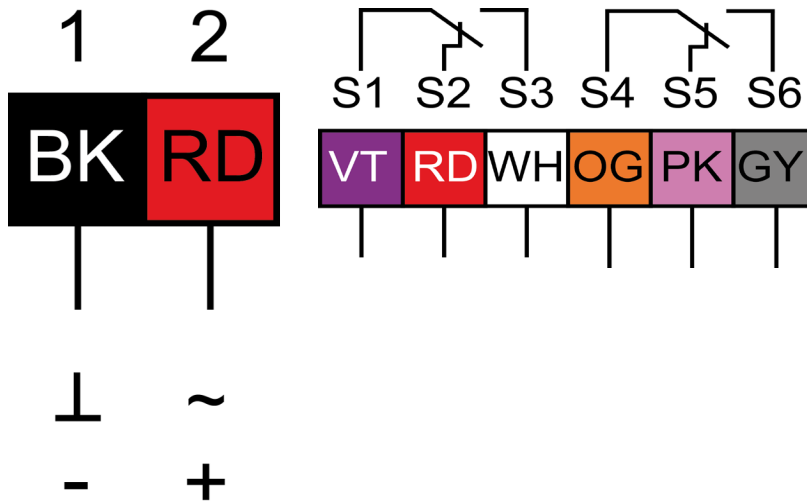
Manual override

The actuator can only be operated manually while the power supply is off. The supplied lever is used to open and lock the damper position. The lock stays until the power supply is switched on again.

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 mechanical pointer.

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 air-planes.
- 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 house hold 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

