

## Technical data sheet

### 362-024-20-S2/8Fx Smoke actuator without spring return

#### Description

Rotary actuator for adjusting smoke control dampers in HVAC installations

- Running time 60 s / 90°
- Torque 20 Nm
- Nominal voltage 24 VAC/DC
- Control 2-point
- Auxiliary switch 2x fixed, not adjustable
- Shaft coupling form fit 8 mm (8F 8)
- form fit 10 mm (8F10)
- form fit 12 mm (8F12)
- form fit 14 mm (8F14)



#### Technical data

<b>Electrical data</b>	Nominal voltage	24 VAC/DC, 50/60 Hz
	Nominal voltage range	19...29 VAC/DC
	Power consumption motor (motion)	4,0 W
	Power consumption standby (end position)	1,5 W
	Wire sizing	5,5 VA
	Control	2-point
	Feedback signal	-
	Auxiliary switch	2 x SPDT (AgAu)
	Contact load	1 mA...5 (2,5) A, 5 VDC...250 VAC
	Switching point	5° / 80°
	Connection motor	cable 1000 mm, 3 x 0,75 mm <sup>2</sup> (halogen free)
	Connection auxiliary switch	cable 1000 mm, 6 x 0,75 mm <sup>2</sup> (halogen free)
	Connection GUAC	-
<b>Functional data</b>	Torque motor	20 Nm
	Torque spring	-

## Technical data

<b>Functional data</b>	Synchronised speed	±5%
	Direction of rotation	selected by mounting
	Manual override	manual override
	Angle of rotation	0°...max. 95°
	Running time motor	60 s / 90°
	Running time spring	-
	Sound power level motor	< 60 dB(A)
	Sound power level spring	-
	Shaft coupling	form fit 8 mm (8F 8) form fit 10 mm (8F10) form fit 12 mm (8F12) form fit 14 mm (8F14)
	Position indication	mechanical with pointer
	Service life	> 60 000 cycles (0°...95°...0°)
	Thermal tripping device	-
	Temperature TF1	-
	Temperature TF2	-
<b>Safety</b>	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	0,8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature normal operation	-30°C...+50°C
	Ambient temperature safety operation	see "Operating mode / Properties"
	Storage temperature	-30°C...+80°C
	Ambient humidity	5...95% r.H., non condensing (EN 60730-1)
<b>Dimensions / Weight</b>	Dimensions	193 x 96 x 60 mm
	Weight	1800 g

## Functionality / Properties

### Operating mode

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.

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 form fit, protection against rotating with enclosed anti-rotation lock or rather at intended attachment points.

### Manual override

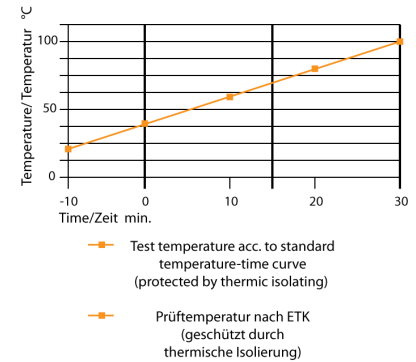
The actuator can be operated only manually while the power supply is off. The supplied lever is to open and lock the damper position. The lock stays until the power supply is put on.

### Signaling

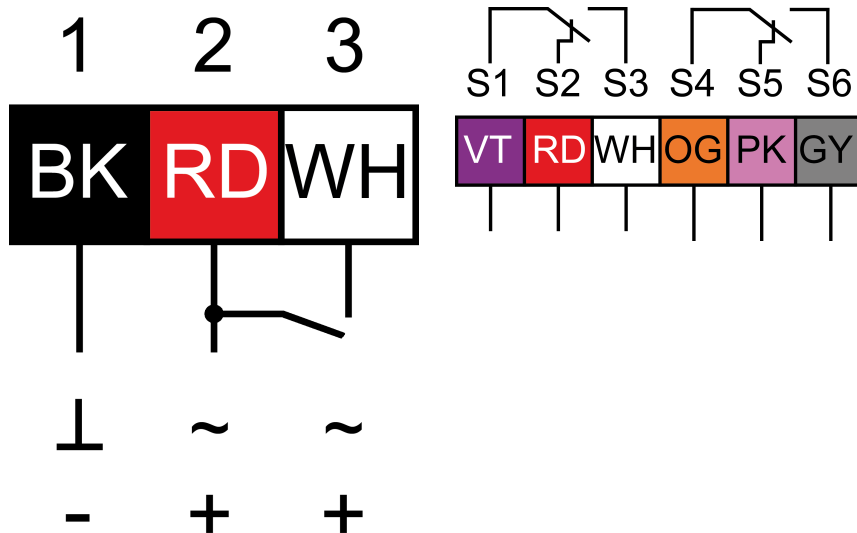
The two integrated auxiliary switches are activated at the fixed switching positions ( $> 5^\circ$  and  $> 80^\circ$ ). The damper position can be checked by the mechanical pointer.

### Safety function

The safety function is guaranteed within the temperature range shown in the diagram below which is based on standard ÖNORM H 6029 and DIN 18232.



## 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.
- 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.
- The device is adapted and mounted to the fire and smoke damper by the damper manufacturer. For this reason, the device is only supplied direct to safety damper manufacturer. the manufacturer then bears full responsibility for the proper functioning of the damper.

## Technical Drawing

