GRUNER
Schalten und Bewegen

Technical data sheet

342-024-15-S2/8Fx

Smoke actuator without spring return

Description

Actuator for adjusting smoke dampers of 90° angle of rotation to be used in HVAC installations.

- **Torque Motor** **15 Nm**
- **Nominal Voltage** **24 VAC/DC**
- **Control** **2- Point**
- **Auxiliary switch** **2x fixed, not adjustable**
- **Damper coupling** **form closure 8 mm (8F 8)**
  form closure 10 mm (8F10)
  form closure 12 mm (8F12)

Technical data

Nominal voltage	Nominal voltage	24 VAC (50/60Hz), 24 VDC
	Nominal voltage range	19...29 VAC/DC
	Power consuption Motor (Motion)	7 W
	Power consuption Standby (end position)	1,5 W
	Wire sizing	9,5 VA
	Control	2-Point
	Auxiliary switch	2 x SPDT (AgAu)
	Contact load	1 mA...5 (2,5) A, 5...250 VDC
	Switching point	5° / 80° @ 0°...+95°
	Thermal tripping device	-
	Temperature TF1	-
	Temperature TF2	-
	Connection Motor	Cable 1000 mm, 3x0,75 mm² (halogen free)
	Connection Auxiliary switch	Cable 1000 mm, 6x0,75 mm² (halogen free)
	Connection GUAC	-
Functional data	Torque Motor	>15 Nm
	Synchronised speed	±5%
	Direction of rotation	selected by mounting
	Manual override	-
	Angle of rotation	0°...max. +95°
	Running time Motor	<30 s / 90°
	Sound power level Motor	<55 dB(A)
	Damper coupling	form closure 8 mm (8F 8) form closure 10 mm (8F10) form closure 12 mm (8F12)
	Position indication	mechanical with pointer

Technical data

Functional data	Service life	>60.000 cycles (0°...+95°...0°)
Safety	Protection class	III (low voltage safety current)
	Degree of protection	IP54
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	Mode of operation	Typ 1.AA B (EN60730-1)
	Rated impulse voltage	0,8 kV (EN60730-1)
	Control pollution degree	3 (EN60730-1)
	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.F., non- condensating (EN 60730-1)
	Maintenance	maintenance free
Dimensions/ Weight	Dimensions	145 x 75 x 70 mm
	Weight	ca. 1,200 g

Operating mode / Properties

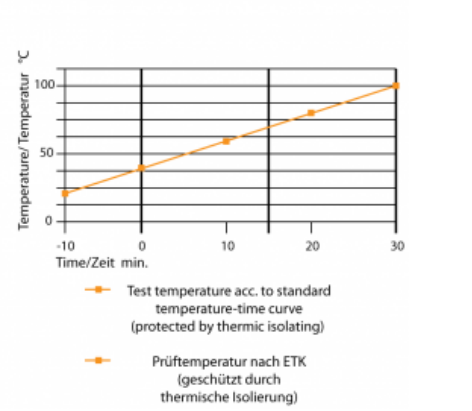
Operating mode
Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position “R” moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

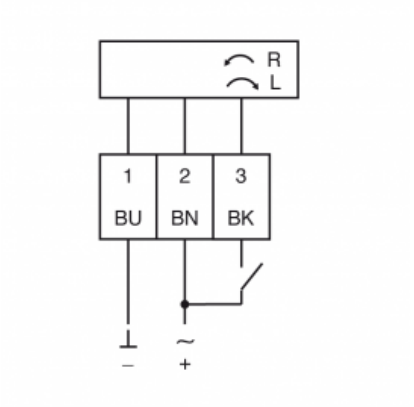
Signaling
The two integrated auxiliary switches are activated at the fixed switching positions (< 5° and > 80°). The damper position can be checked by the mechanical pointer.

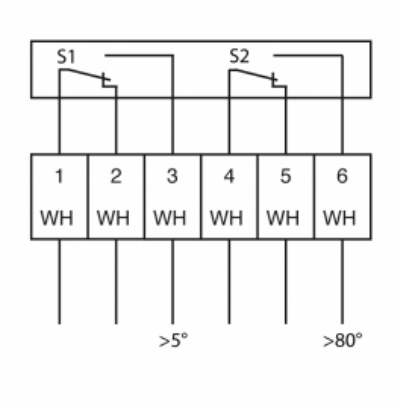
Direct mounting
Simple direct mounting on the damper spindle with formlock, supplied with anchoring supports to prevent the actuator from rotating.

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.



Connection / Safety remarks

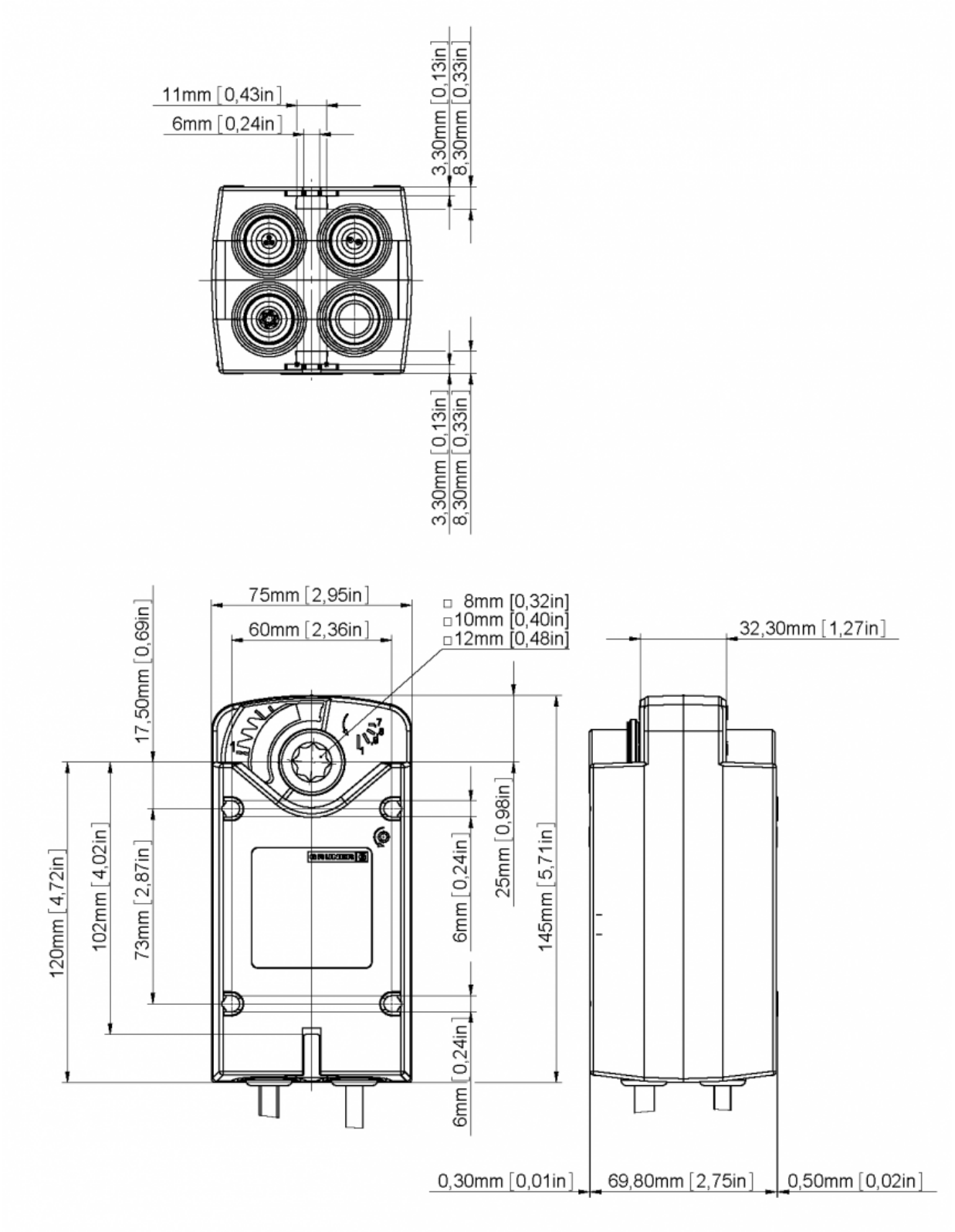




Safety remarks

-Connect via safety isolation transformer
-The actuator is not allowed to be used outside the specified field of application, especially in airplanes.
-In 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.
-When calculating the required torque, the specifications supplied by the damper manufacturers (cross- section, design, installation site), and the air flow conditions must be observed.
-The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Technical drawing



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