

Fire Smoke Damper Actuator On/Off Spring Return 5Nm

RAF5

CE

RAF 5



Technical Data

Maintenance

Standards

Power Supply	24Vac/dc +/-10%		
Power Consumption	230Vac +/-10%	50-60Hz	
Operating At the end stops	7,2W for 24V 2,5W for 24V	4,2W for 230V 5,5W for 230V	
Wire sizing Angle of Rotation	10VA 90° (95° mechanical)		
Torque Protection Class	Min. 5Nm IP54 and II	Spring min. 5Nm	
Auxiliary Switch Rating Direction of Rotation			
Angle of Rotation Shaft Dimension	90°(95° mechanical) Form Fit 12mm square (incl.adapter 8 /10mm square) 10mm minimum shaft length		
Running Time	50-70sec		
Noise Level	<20sec of spring back Below 45dB (A)		
Usage Life Inventory Temperature	Min. 60'000 open-close operations +70° as per 721-3-2		
Thermal Temp.Trip Ambient Temperature:	>72° -20+ 50°C		
Ambient Humidity: Weight	595%rH non-condensing 1,8		

Maintenance free

The actuators meet CE requirements

Features

- 5Nm torque to regulate dampers up to approx. 1,0m2
- 2 pcs auxiliary potential-free switches, fixed
- Manual Override by crank handle
- Anti-rotation bracket provided for stability
- Adjustable angle of rotation, mechanical endstops
- Simple Direct mounting by universal adapter
- Available with 1m cable connection
- Energy saving at end stops
- Thermal sensor when requested
- Hold safe position in case of high temperature

Short Description

By using the mounting clamp the actuators can be direct couple mounted over the damper shaft

The compact size allows for easy installation where space is limited.

Damper Size

When calculating the torque required to operate dampers, it is essential to take into account all the data supplied by the damper manufacturer concerning cross sectional area, design, mounting and air flow conditions.

The recommended damper size are guide values

Usage

The RAF5 spring return damper actuator series are designed specially for Fire and Smoke application.

The RAF5 high quality damper actuators are developed for use with fire and smoke dampers.

The actuator motorized the damper or other devices when power on and spring back to it original position when power is cut off or trip by the thermal sensor.

When temperature reaches 72 degree the damper is closed.

The actuator can be controlled by a suitable handle.

Well-suited for applications with security dampers used as anit-freze, antismoke or for sealing in the hygienic-sanitary field.

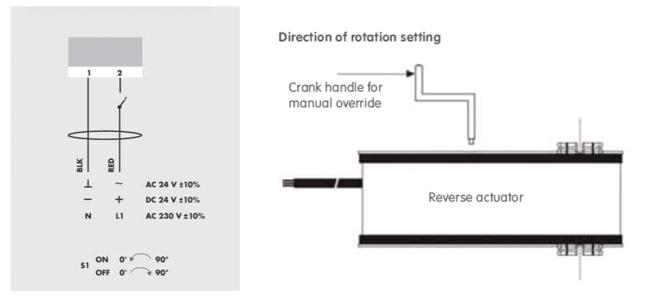
Ordering

RAF5 24D RAF5 220D	Fire Smoke Actuator Fire Smoke Actuator	•••••	
RAF5 24DTH	Fire Smoke Actuator c/w Thermal Sensor	5Nm	24Vac/dc
RAF5 220DTH	Fire Smoke Actuator	5Nm	230Vac
	c/w Thermal Sensor		

Automatikprodukter

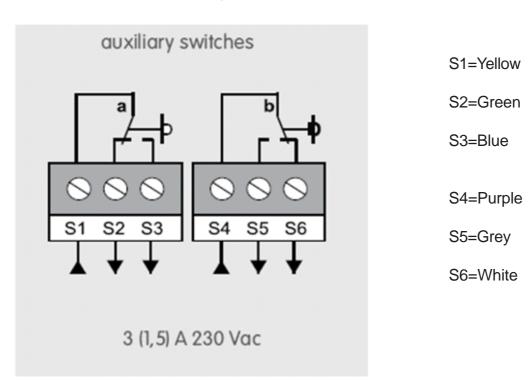


Electrical wiring



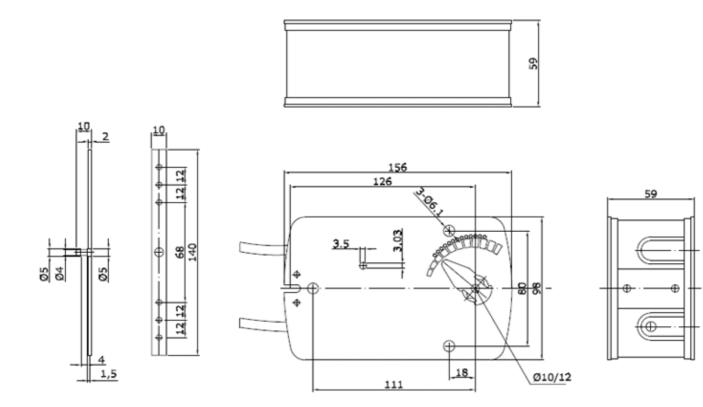
Auxiliary switches setting

Factory setting: switch a fixed at 5°. switch b fixed at 85°. The switches are not adjustable

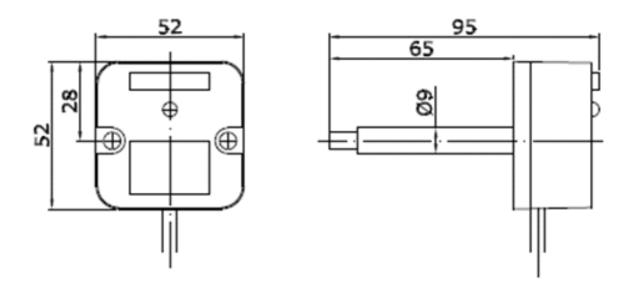




DIMENSIONS (mm)



Thermal sensor



Notice: manual operation instruction

Insert the hand handle into the hex hole, smoothly and slowly turn around the handle by clockwise (or counter clockwise) rotation, according to the diagram of the product label.

On/Off Spring Return

Fire Smoke Damper Actuator

At the same time, the outputshaft will follow and turn by clockwise (or counter clockwise) rotation.

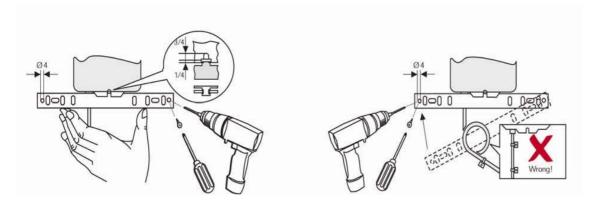
5Nm

When the outputshaft moves to the required position, then turn the handle conversely by counter clockwise (or clockwise) with 90 !, the outputshaft will be blocked.

Then turn slightly the handle by another clockwise (or counter clockwise), the outputshaft will move again.

[Attention]:Please do not operate manually when the actuator is speedly rebounding, otherwise it causes easily unlocking by manual or assembly damage.

Installation and Mounting Instruction



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