## AX-RAF-20D

## Fire Damper Actuator, Spring Return & Aux Sw, 20Nm



#### **Product Overview**

The AX-RAF-20 spring-return damper actuators are designed for fire and smoke dampers in ventilation and airconditioning systems. These 24Vac/dc & 230Vac operated actuators comes with two auxiliary SPDT switches and an optional thermal switch which operates at 72°C.



#### **Products Features**

- Square shaft: Max 12x12 mm
- Control: On/Off

- Two auxiliary switches
- Optional thermal switch

### **Product Specifications**

Torque: 20Nm  $4m^2$ Damper size:

Running time Less than 180s. Spring reset time <30s

AC/DC 24V 50/60Hz OR AC 100-240V 50/60Hz Power supply:

Nominal voltage range: 24Vac (AC/DC 19.2V-28.8V), 230Vac (AC 85V-265V)

Runtime: 7W, Idle:2W Power consumption:

Cut-off at 72°C Thermal switch (optional):

95° max Angle of rotation:  $0.5m^{2}$ Wire Size:

Direction: Selectable by mounting L/R

Position indication: Machine Instruction

Manual override available: Yes

Auxiliary switch: 2x SPDT

1mA...3(1.5)A, AC220V Auxiliary switch rating:

Sound power level, motor: 45dB (A) Sound power level, spring return: 62dB (A) IP54 Ingress protection:

Ambient temperature: -20°C to 50°C

95 % RH, Non Condensing Ambient humidity:

Storage temperature: -30 to 80°C Weight: <2.6 Kg Compliance: CE Country Of Origin: UK

#### Order Codes

Part number **Description** 

AX-RAF-20DS Fire damper actuator, spring return, 20Nm, 2x SPDT Aux switches

AX-RAF-20DST Fire damper actuator, spring return, 20Nm, 2x SPDT Aux switches, Thermal switch

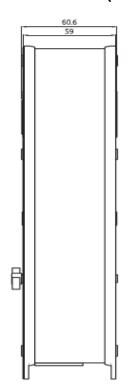
\* Add suffix "-230" for 230Vac versions

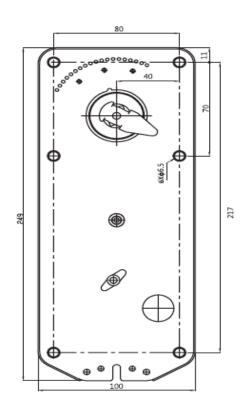
# AX-RAF-20D

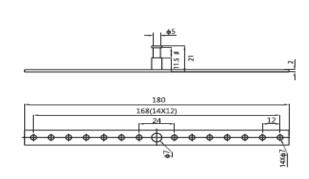
## Fire Damper Actuator, Spring Return & Aux Sw, 20Nm



## **Dimensions (mm)**

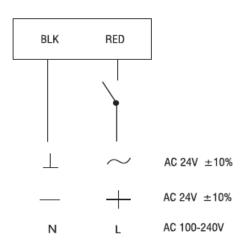




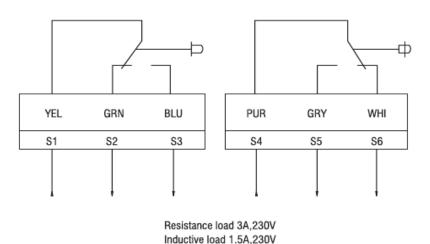


## **Wiring Diagram**

#### Actuator

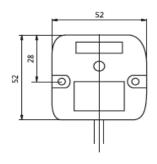


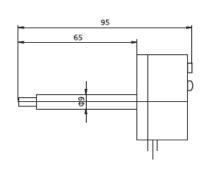
### **Auxiliary switch**



# **Thermal Sensor**

Thermal Sensor SAF72 Consist of both Ambient(TS1) and Duct sensor(TS2). TS1 will trip open when the ambient temperature rise above 72°.TS2 will trip open when the duct temperature rise above 72°.





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#### **Operation**

When power is applied, the actuator moves the damper at the same time as tensioning the return spring. It returns to the safety position by spring energy when the supply voltage is interrupted.

Plug the handle into the hexagonal hole. Move the handle in the direction of the arrow icon slowly. The output shaft and pointer will start rotating. After moving to the required position, rotate the lock knob towards the lock icon to lock the output shaft. To unlock, rotate the lock knob in the opposite direction.

DO NOT operate it manually when the spring is returning. It could cause mechanical damage.

#### **Datasheet Contents**

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