



CE RAR5

### Technical Data

<b>Power Supply</b>	24Vac/dc +/-10% 50-60Hz
	230Vac +/-10% 50-60Hz
<b>Power Consumption</b>	
Operating	7,2W for 24V      4,2W for 230V
At the end stops	2,5W for 24V      5,5W for 230V
<b>Wire sizing</b>	10VA
<b>Angle of Rotation</b>	90° (95° mechanical)
<b>Torque</b>	5Nm
<b>Protection Class</b>	IP54 and II
<b>Auxiliary Switch Rating</b>	3A(1,5A)@/230Vac Switching pointAdjustable 40...90° (b) Fixed at 5° (a)
<b>Angle Limiting</b>	Mechanical end stops
<b>Direction of Rotation</b>	Bidirectional (right/left)
<b>Angle of Rotation Lim.</b>	-5°...+85° in 5° steps
<b>Shaft Dimension Dia</b>	10-16mm round / 7-11mm square 40mm minimum shaft length
<b>Running Time</b>	50-70sec <20sec of spring back
<b>Noise Level</b>	Below 45dB (A)
<b>Usage Life</b>	Min. 60'000 open-close operations
<b>Position Indication</b>	Mechanical
<b>Ambient Temperature:</b>	-20...+ 50°C
<b>Storage Temperature:</b>	-30...+ 60°C
<b>Ambient Humidity:</b>	5...95%rH non-condensing
<b>Weight</b>	1,8
<b>Maintenance</b>	Maintenance free
<b>Standards</b>	The actuators meet CE requirements

### Features

- 5Nm torque to regulate dampers up to approx. 1,0m2
- Auxiliary potential-free Switches, fixed and adjustable
- 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 1 m cable connection
- Energy saving at end stops

### 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 RAR5 spring return damper actuator series are designed specially for application, into the HVAC market.

The RAR5 high quality spring return damper actuators designed for use air dampers, butterfly valve, characterized ball valve and other devices that required a fail safe function.

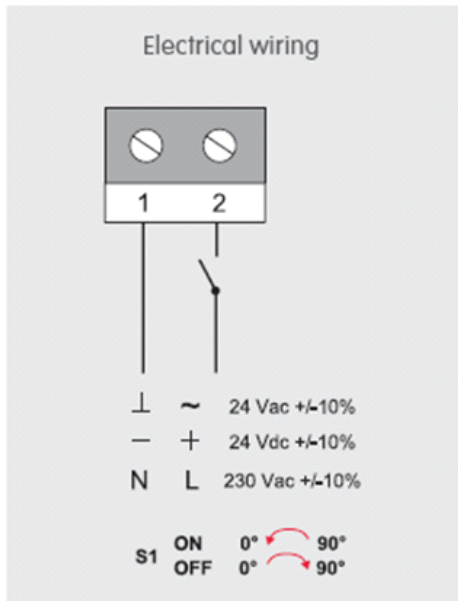
The actuator opens the damper loading the return-spring with is current cut-off the spring moves the damper in a safe position.

The actuator can be controlled by a suitable handle.

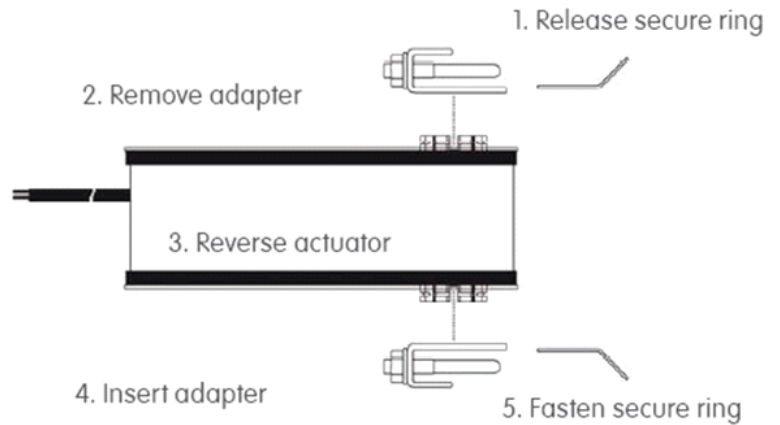
By this way the spring can be loaded and the actuator can be positioned as required.

### Ordering

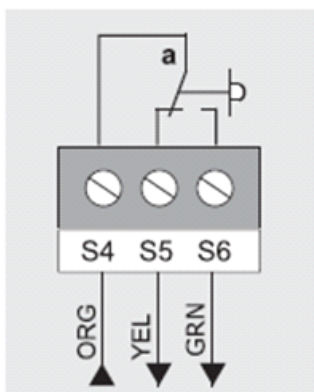
<b>RAR5 24D</b>	Fail Safe Actuator	5Nm	24Vac/dc
<b>RAR5 230D</b>	Fail Safe Actuator	5Nm	230Vac
<b>RAR5 24DS2</b>	Fail Safe Actuator	5Nm	24Vac/dc aux.sw.
<b>RAR5 230DS2</b>	Fail Safe Actuator	5Nm	230Vac aux.sw



### Direction of rotation setting

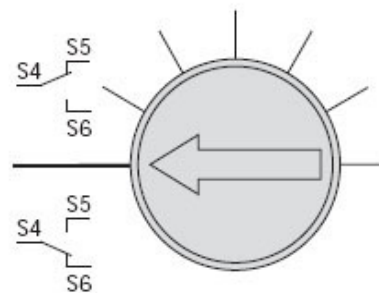


### Auxiliary switch setting



### Auxiliary switch adjustment Switch a Factory set at 5°

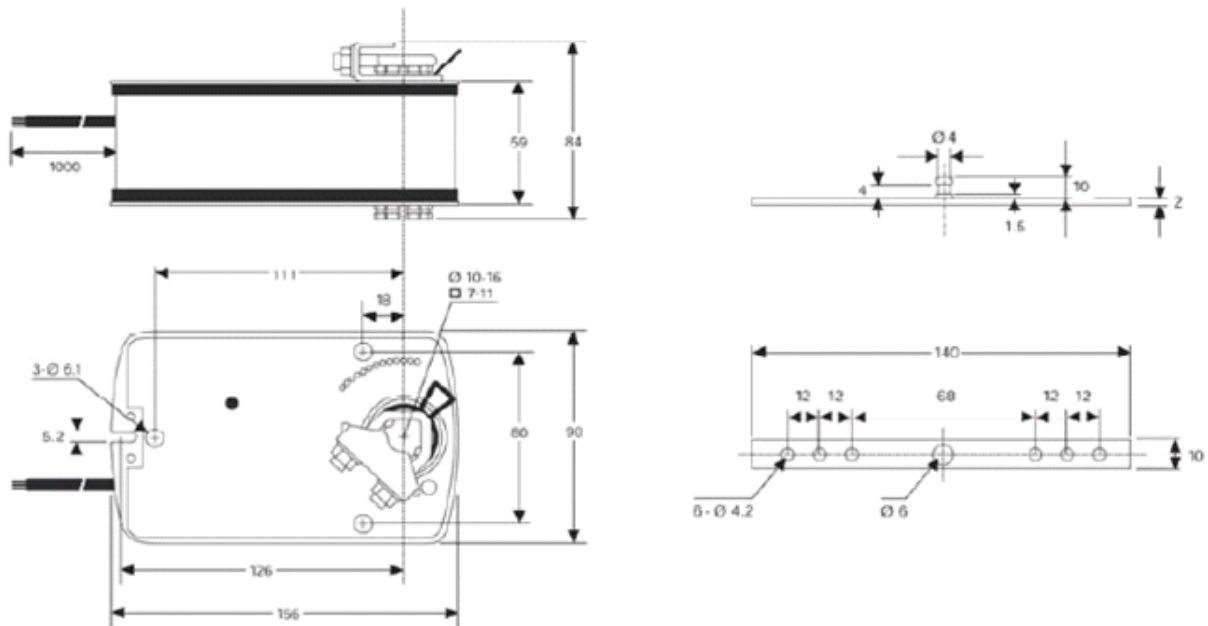
Switch b  
adjustable  
40°...90°



Built-in Microswitch Adjustment  
Move the screw of the microswitch.

**ORG** - orange  
**YEL** - yellow  
**GRN** - green

### DIMENSIONS (mm)



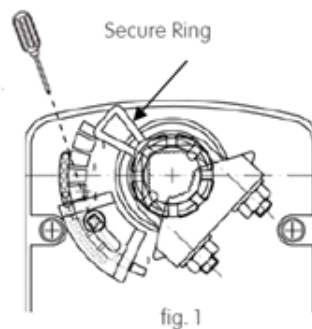
### Limitation of rotation angle

For 5° to 45° (see fig. 1)

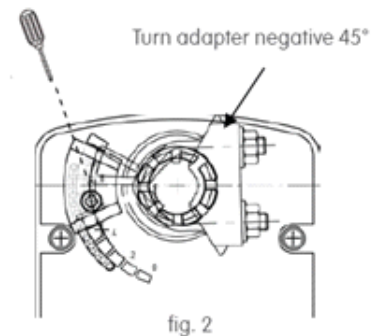
1. Loosen screw of the mechanical limiter plate.
2. Move the limiter plate to the appropriate position.
3. Tighten the screw.

For 45° to 85° (see fig. 2)

1. Release the secure ring of the adapter.
2. Remove the adapter and turn negative 45° as shown.
3. Insert adapter and secure the adapter ring.
4. Loosen screw of the mechanical limiter plate.
5. Move the limiter plate to the appropriate position.
6. Tighten the screw.



5° to 45° setting



45° to 85° setting