Fail Safe Actuator
On/Off Spring Return 8Nm RAR 8

Jan.10

CE RAR8

Technical Data

Power Supply	24Vac/dc +/-10% 50-60Hz	
	230Vac +/-10% 50-60Hz	
Power Consumption		
Operating	7W	8W(aux-version)
At the end stops	2W	5,5W(aux-version
Torque	8Nm	
Protection Class	IP54 and II	
Auxiliary Switch Rating	3A(1,5A)@250Vac	
	Switching point Adjustable 40...90°(b)	
	Fixed at 5° (a)	
Angle Limiting	Mechanical end stops	
Direction of Rotation	Bidirectional (right/left)	
Angle of Rotation	-5...+90°(mechanical)	
Shaft Dimension Dia	8-21mm round / 6-15mm square	
	40mm minimum shaft length	
Running Time	70sec	
	<25sec of spring back	
Noise Level	Below 45dB (A)	
Usage Life	Min. 60´000 open-close operations	
Position Indication	Mechanical	
Control Signal	2-point	
Ambient Temperature:	-20…+ 50°C	
Ambient Humidity:	5…95%rH non-condensing	
Weight	2,2 resp 2,3kg (aux-version)	
Maintenance	Maintenance free	
Standards	The actuators meet CE requirements	

Features

- **8Nm torque to regulate dampers up to appr. 1,5m2**
- **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 1m cable connection**
- **Energy savings 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

High dependable performance

RAR8 on/off type damper actuator is a high quality spring return damper actuators designed for use air dampers, butterfly valve, ball and seat valve with the use of special adapter.

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

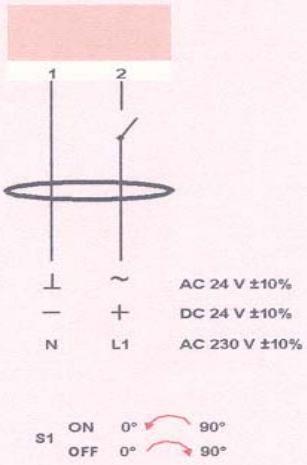
The actuator can be controlled by a suitable handle.

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

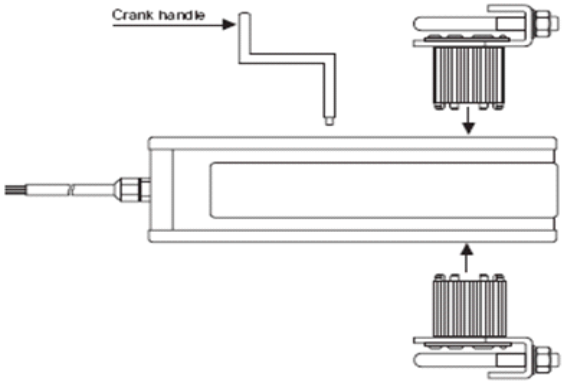
Ordering

RAR8 24D	Fail Safe Actuator	8Nm	24Vac/dc
RAR8 230D	Fail Safe Actuator	8Nm	230Vac
RAR8 24DS2	Fail Safe Actuator	8Nm	24Vac/dc aux.sw.
RAR8 230DS2	Fail Safe Actuator	8Nm	230Vac aux.sw

Wiring diagram

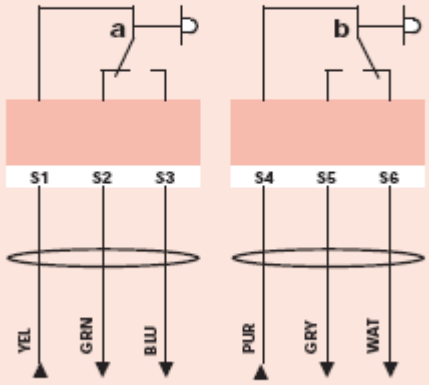


Changing direction of rotation



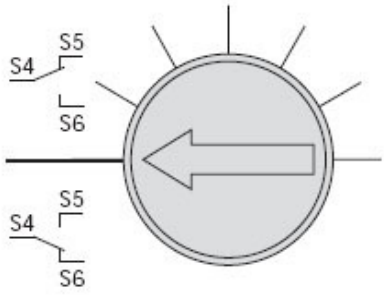
⚠ 24VAC/DC: Connect via safety isolating transformer.
230 VAC: To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductors (with at least a 3 mm contact gap).

Auxiliary switches (S)



Auxiliary switch adjustment
Switch a Factory set at 5°

Switch b
adjustable
40°...90°



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

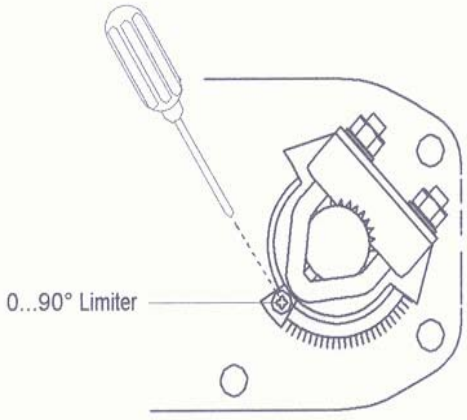
Electrical Wiring

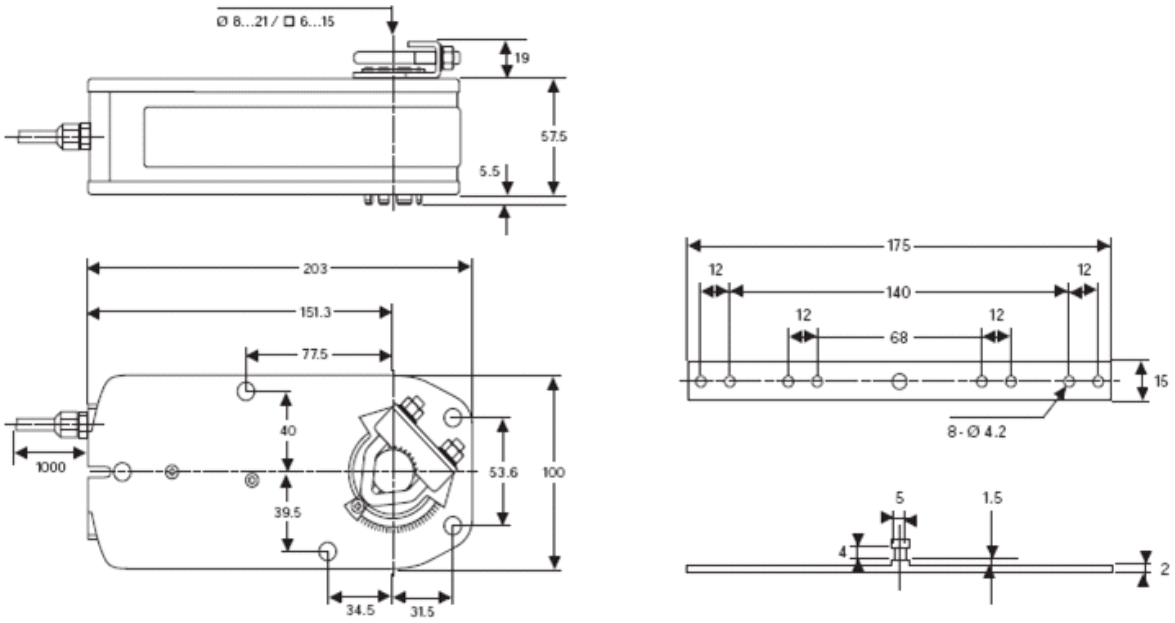
YEL	-	yellow
GRN	-	green
BLU	-	blue
PUR	-	purple
GRY	-	grey
WAT	-	ochre
BLK	-	black
RED	-	red

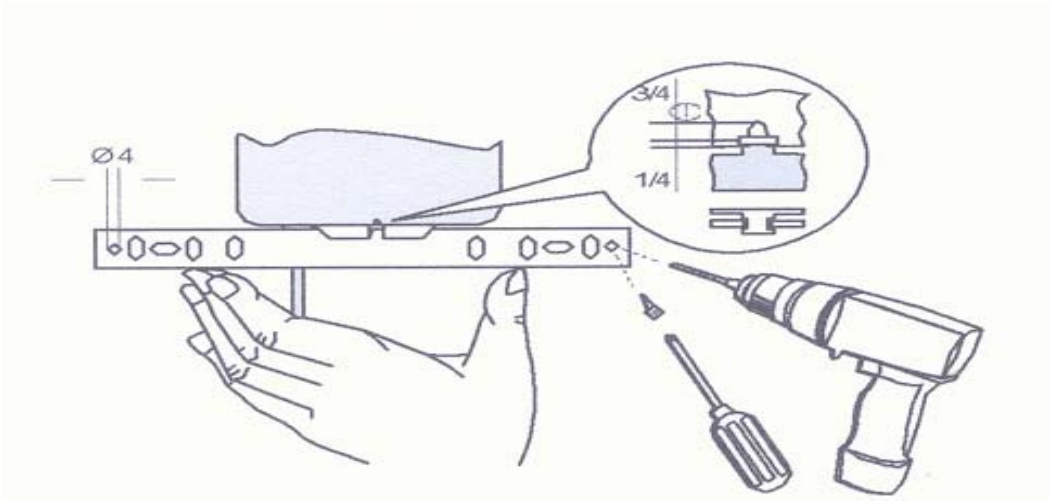
Angle-of-rotation limiting

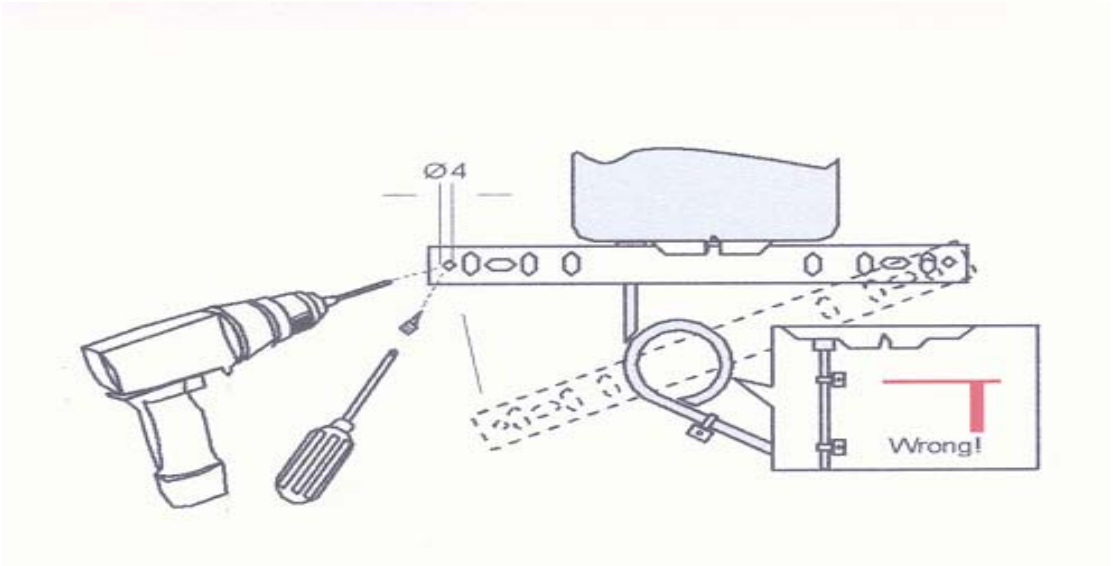
Mechanical Limited
Adjustment

1. Loosen screw of the mechanical limited.
2. Move the limited to the appropriate position.
3. Tighten on the screw.




Ø 8...21 / □ 6...15
19
57.5
5.5
203
151.3
77.5
40
1000
39.5
53.6
100
34.5
31.5
175
12
140
12
12
68
12
15
8 - Ø 4.2
5
1.5
4
2


Ø4
3/4
1/4


Ø4
Wrong!