

Rotary Damper Actuator On/Off and Raise/Lower



Features

- 32Nm torque to regulate dampers up to approx 6m2
- Manual Over-Ride by Push-button
- Anti-rotation bracket provided for stability
- 2 adjustable auxiliary switches (SPDT)
- Simple Direct Mounting by Universal Adapter
- Up to 5 actuators can be connected in parallel
- Reversible rotation

Technical Data

Power Supply 24Vac/dc +/-10%, 50/60Hz , +/-10%

230Vac, 50/60Hz, +/-10%

Power Consumption

Operating 4W for 24V and 4,8W for 230V At the end stops 0,5W for 24V and 1,2W for 230V

Wiring Size 6,5VA

Connections Screw terminals

Control Signal On/Off or Raise/Lower

Shaft length Min 50mm

Torque 32Nm

Protection Class IP54 with cable glands

Rotation Angle 0-90°

Angle Limiting 5-85° (in 5° step)

Direction of Rotation Bidirectional L/R switch (right/left)

Auxiliary Switch Rat. 2 x SPDT 3(1,5),@230Vac

Shaft Dimension Dia. 10-20mm round / 10-16mm square

Running Time 140sec

G

Noise Level < 45dB (A)

Usage Life Min. 60.000 open-close operations

Position Indication Mechanical **Ambient Temperature:** -20...+ 50°C

Ambient Humidity: 5...95%rH non-condensing

Weight 1,2 kg

Maintenance Maintenance free

Standards The actuators meet CE requirements

Short Description

These non-spring return actuator have 32Nm running torpue in a compact easy-to-install package.

It has a nominal 140s second travel time fo 90degree of rotation.

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.

Manual control through buttons available in the housing.

Actuator itself has ability of over-loading protect.

It stops automatically without limit switch

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

RA on/off and floating damper actuator is a high quality damper actuator for applications in HVAC systems.

For use with air damper, butterfly valve, charactrized ball valve and globe valve with the use of special adapter

Ordering

RA32 24D Damper Actuator 32Nm 24Vac/dcRA32 230D Damper Actuator 32Nm 230Vac

RA32 24DS2 Damper Actuator 32Nm 24Vac/dc aux.sw RA32 230DS2 Damper Actuator 32Nm 230Vac aux.sw

Automatikprodukter

32Nm RA32

Jan.10

Technical Overview

The RA32 range of actuators require 24Vac/dc or 230V supply and can accept either an on/off or floating (raise/lower) control signal input.

They are available in 32Nm torque rating and can have an auxiliary switches options fitted.

The direction of rotation can be reversed and the angle of mechanical travel can be limited by up to 30 degree from either end.

Installation

- Ensure that all power is disconnected before carrying out any work on the RA.
- 2. Maximum cable is 2,5mm2, care must be taken not to over tighten terminals.
- 3. Attach the actuator to the damper spindle, finger tighten the nut on the clamp.
- Fix the anti-rotation strap to the back of the actuator (bend if required).
- 5. Move the damper to the closed position.
- Using the manual override push button, turn the clamp until the actuator is in correct position.
- 7. Tighten the nut on the clamp.
- 8. If the damper has no fixed stops of its own, the limit stops may need to be adjusted.

To mechanically limit the angle of rotation, loosen the 2 bolts on the segment required to be limited, and reposition the segment

Re-tighten the 2 boltsthe bolt.

Note, this operation only limits the travel at one end.

If both ends need to be limited, carry out the above operation on the other segment.

- 9. Fit the cable gland into the back of the actuator
- Undo the screw on the cover of the actuator and remove the cover.
- Terminate the cores at the terminal block (see page 3), leaving some slack inside the unit.
- Replace the lid after the electrical connections have been made.
- 12. Ensure that the voltage is within the sepcified tolerances.

Auxiliary Switches

To adjust the auxiliary switches, in this example to 30° and 70°), follow the procedure below.

NB: The switches, where fitted, are factory aligned to 10° for **A** and 80° for **B**.

- 1. To set switch A (see fig.2) press the manual over-ride switch and rotate the adaptor (Fig.1) to the 30° position.
- 2. Slightly loosen the cross head screw in cam wheel A so that the wheel can be moved by hand.
- 3. Rotate cam wheel A until the micro switch clicks.
- 4. Re-tighten the cross head screw in cam wheel A.
- 5. To set switch B (see fig.2) press the manual override switch and rotate the adaptor (Fig.1) to the 70° position.
- 6. Slightly loosen the cross head screw in cam wheel B so that the wheel can be moved by hand.
- 7. Rotate cam wheel B until the micro switch clicks.
- 8. Re-tighten the cross head screw in cam wheel B.

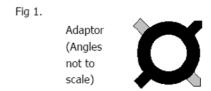
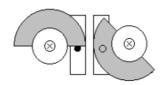
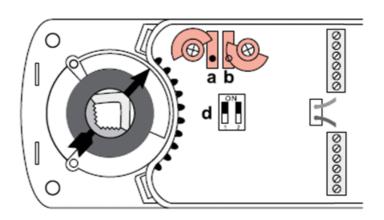
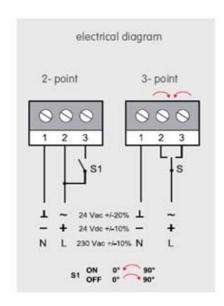


Fig 2.



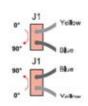


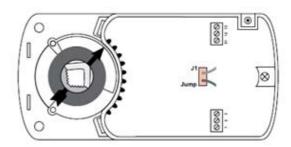




Direction of rotation setting

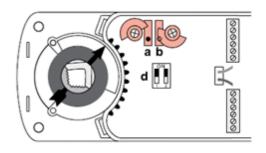
The direction of rotation can be changed by reversing Jumper J1.

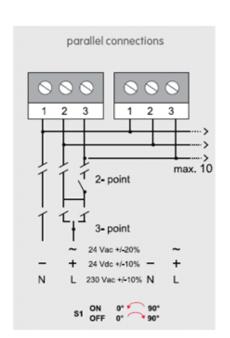




Auxiliary switches setting

Factory setting: switch a at 10° switch b at 80° The switching position can be changed manually.





Limitation of rotation angle Adapter release

DIMENSIONS (mm)

