

Rotary Damper Actuator Modulating 0(2)-10vdc/0(4)-20mA RA32VC



Features

- 32Nm torque to regulate dampers up to approx. 8m2
- Manual Override by push-button
- Anti-rotation bracket provided for stability
- Adjustable Angle of Rotation, Mechanical Endstops
- Simple direct mounting by Universal Adapter

RA32

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- Reversible rotation
- Up to 10 Actuators can be connected in parallel
- **Power Savings at End Stops**

Technical Data

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

230Vac +/-10% 50/60Hz

Power Consumption

2,5W(24V) 3,8W(230V) Operating At the end stops 0.3W(24V) 0,7W(230V)

Wiring size 4,5VA(24V) 7,5VA(230V) Control Signal(Input) 0(2)-10Vdc eller 0(4)-20mA

Feed back Signal **Torque**

0(2)-10Vdc 32Nm

Aux.switching rating

3(1,5)@230Vac

Protection Class IP54 with cable glands

Angle Limiting Max 95 degree

Direction of Rotation Bidirectional (right/left switch)

Angle of Rotation -5...+85° wit 5°steps

Rotation angle 0-90°

Shaft Dimension Dia

10-20mm round / 10-16mm square

Running Time sec

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

1,1 kg

Maintenance Maintenance free Connections Screw terminals

Standards The actuators meet CE requirements

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.

Manual control through buttons available in the housing.

Actuator itself has ability of over-loading protect.

It stops automatically without limit switch

A mechanical limit operator is placed inside

Output signal amount 0-100%

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

RA32 modulating damper actuator is a high quality damper actuator for applications in HVAC system.

For use with air damper, butterfly valve, characterized ball valve and globe valve with use of special adapter.

Ordering 0(2)-10Vdc/0(4)-20mA

RA32 24VC Damper Actuator 32Nm 24Vac/dc **RA32 220VC** Damper Actuator 32Nm 230Vac

0(2)-10Vdc/0(4)-20mA aux.sw.

RA32 32VCS2 Damper Actuator 32Nm 24Vac/dc aux.sw RA32 220VCS2 Damper Actuator 32Nm 230Vac aux.sw

Automatikprodukter



Damper Actuator Modulating 0(2)-10Vdc/0(4)-20mA

Technical Overview

The RA32 range of actuators require 24Vac/dc supply and can accept either an 0(2)-10Vdc or 0(4)-20mA control signal input.

They are available with 32Nm torque rating and can have auxiliary switch 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 RA32.
- Maximum cable is 2,5mm2, care must be taken not to over tighten terminals.
- Attach the actuator to the damper spindle, finger tighten the nut on the V-clamp.
- Fix the anti-rotation strap to the back of the actuator (bend if required).
- 5. Move the damper to the closed position

6. Using the manual override push button, turn the clamp until the actuator is in correct position.

RA32VC

- 7. Tighten the V-clamp.
- If the damper has no fixed stops of its own, the angle of rotation/ working range can be adjusted mechanically by re-positioning the adapter in 5 ° steps.

The adapter can be released by simply pressing the clip at the base of the actuator (see page 3).

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

Control signal setting

Control signal Y1: 0(2)...10 Vdc Input resistance: Ri 100 kOhm

Control signal Y2: 0(4)...20 mA Input resistance: Ri 500 Ohm

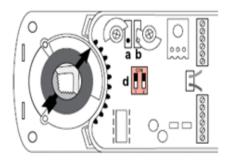
Feedback signal U: 0(2)...10 Vdc Load resistance: > 50 kOhm Microswitch d

0...10 Vdc 0...20 mA

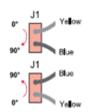


2...10 Vdc 4...20 mA

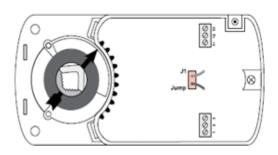




Direction of rotation setting

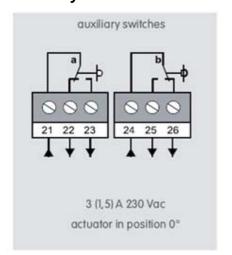


The direction of rotation can be changed by reversing Jumper J1.



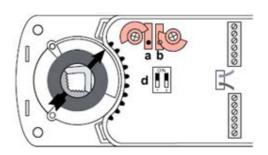


Auxiliary Switches

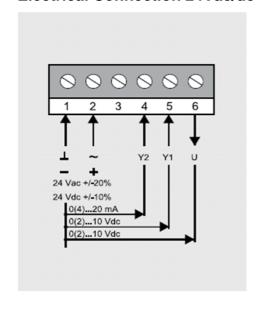


Auxiliary switches setting

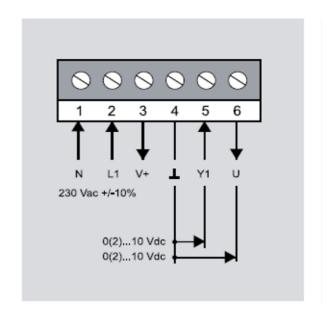
Factory setting: Switch a at 10° Switch b at 80° The switching position can be changed manually.



Electrical Connection 24Vac/dc

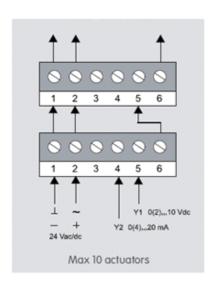


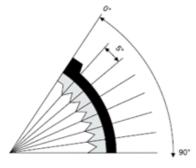
Electrical Connection 230Vac



Parallel Connection of 24V Limitation of rotation angle

Adapter release









DIMENSIONS (mm)

