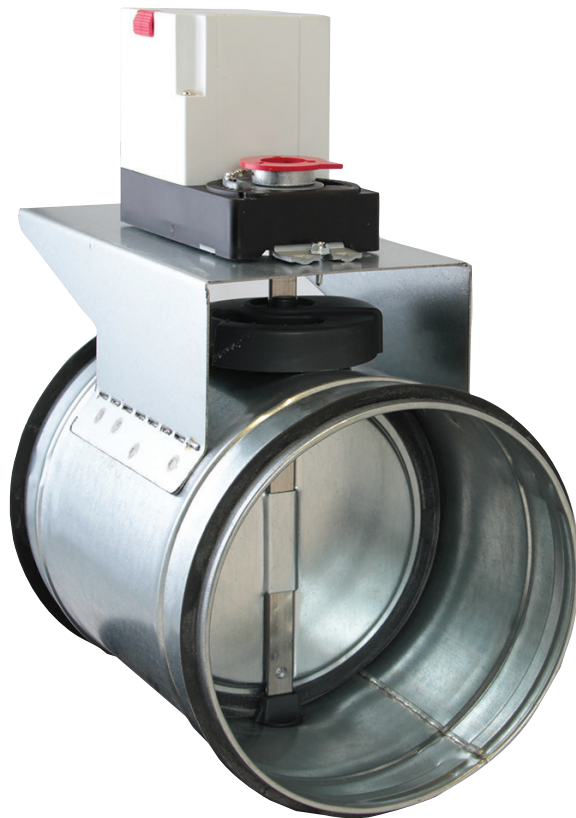




GEOVENT

INSTRUCTION MANUAL



GFD MOTOR DAMPER

| Technical data | |
|---------------------|-------------------------------|
| Power supply | AC/DC 24 V ±10% |
| Dimensioning | 22 VA |
| Power consumption | 18 W |
| Turning time | 1 sec / 90° |
| Torque | 2,5 Nm |
| Angle of rotation | 90° |
| Connection | Cable, 1 m |
| Protection class | III (safety low voltage) |
| EMC-emission | EN 50081-1 |
| EMC-immunity | EN 50082-1 |
| Ambient temperature | 0 - 50°C |
| Sealing class | IP 54 |
| Sound level | Max 45 dB(A) |
| Mounting | Bushing for 8 mm square shaft |
| Weight | 0,7 Kg |

1. Description:

Geovent GFD is a quick turning motor damper for use in point exhaust systems.

Geovent GFD motor damper can be mounted directly on an 8x8 mm square shaft.

When mounted on a round shaft you will need a connection piece.

2. Important:

Geovent GFD motor damper may only be used on dampers without mechanical stop or flexible seals that are to be pressed together with the motor.



3. Adjusting the rotation:

By default the damper is adjusting between 0° and 90°
To decrease the angle, loosen the two screws at the metal rail next to the hole for the shaft. Adjust the metal rail, as required, and fasten the screws.
After adjustment, the motor damper needs to be “trained” again, as mentioned in the section on training.
Be sure that the damper is closed when the motor is by limit switch. Adjust again if necessary.

4. Training:

1. Adjust the screws at the metal rail according to the opening of the damper.
2. Connect the power to the motor damper
3. Change Dip-switch 4 from OFF to ON
4. The motor damper stores the new setting within 5-10 seconds.
5. Change Dip-switch 4 from ON to OFF
6. The motor has saved the new setting.

The opening of the damper can be adjusted to > 30 degrees.

Mode switch

Mode switch with five positions at the housing:

- 1: Rotary direction right 2-10 VDC
- 2: Rotary direction right 0-10 VDC
- 3: Adaption
- 4: Rotary direction left 0-10 VDC
- 5: Rotary direction left 2-10 VDC

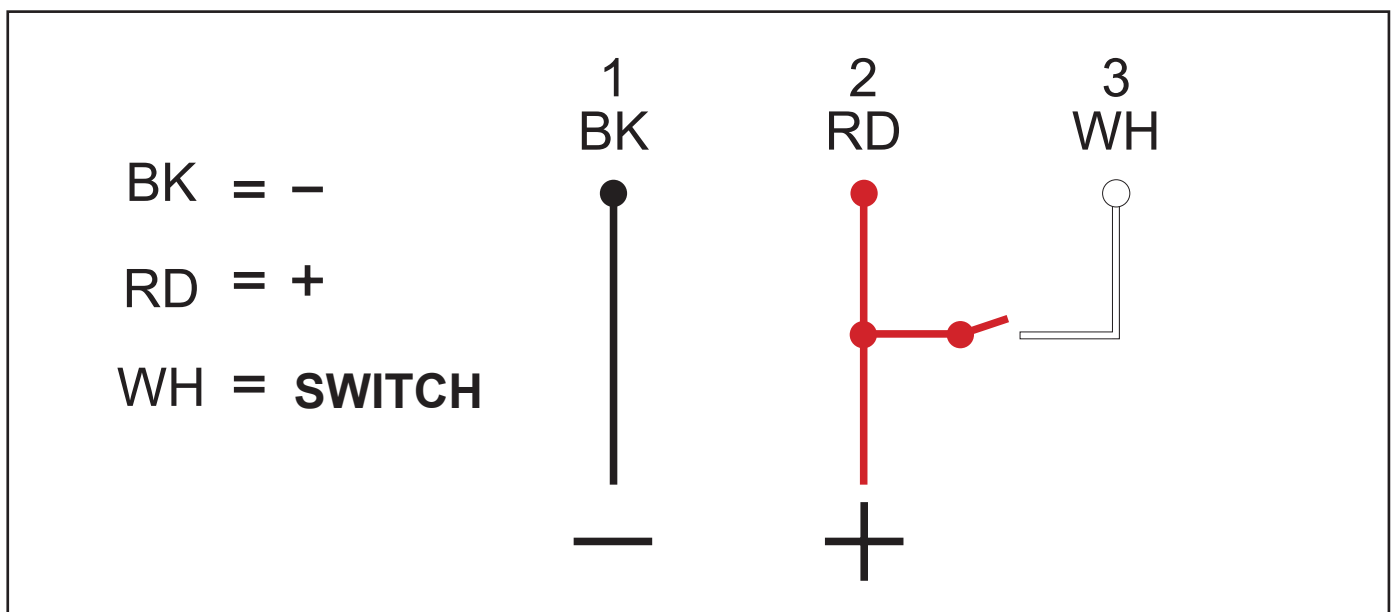
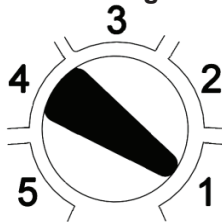
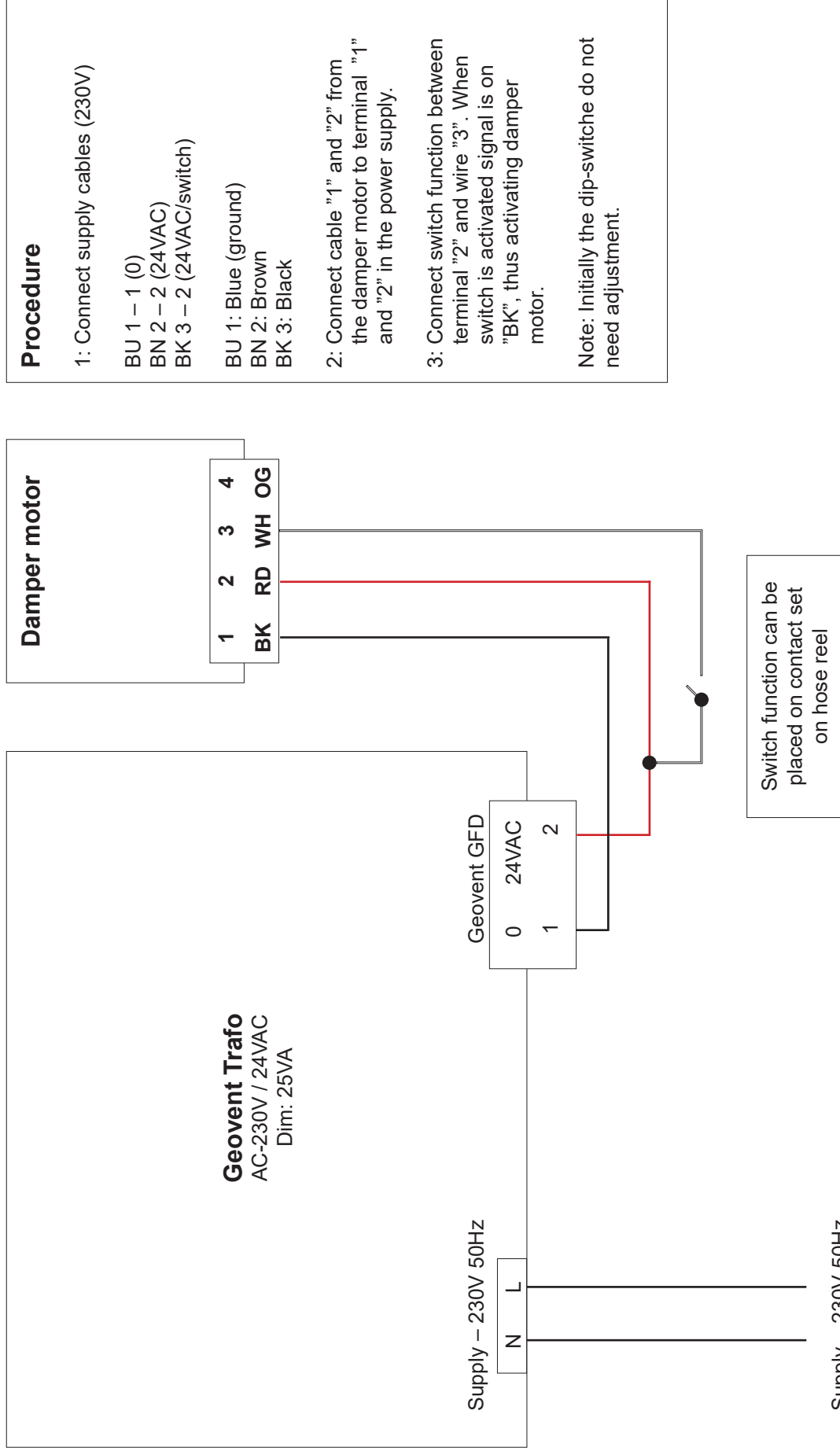


Diagram connection of GFD damper motor



Procedure

- 1: Connect supply cables (230V)
BU 1 – 1 (0)
BN 2 – 2 (24VAC)
BK 3 – 2 (24VAC/switch)
 - BU 1: Blue (ground)
BN 2: Brown
BK 3: Black
 - 2: Connect cable "1" and "2" from the damper motor to terminal "1" and "2" in the power supply.
 - 3: Connect switch function between terminal "2" and wire "3". When switch is activated signal is on "BK", thus activating damper motor.
- Note: Initially the dip-switch do not need adjustment.

5.0 Declaration of conformity.



GEOVENT

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The undersigned hereby declares as manufacturer and represent that:

Product: GFD Motor Damper

conforms with the provisions of the directives and standards mentioned below:

Council Directive 2006/42/EC (May 17, 2006) of the European Parliament on machinery, and amending Directive 95/16/EC.

EN ISO 14121-1:2007 Safety of machinery - Risk assessment -- Part 1: Principles

EN ISO 12100-1:2005 Safety of machinery - Basic concepts, general principles for design

EN ISO 12100-1:2009 Construction and design

Part 1: Terminology, methodology

EN ISO 12100-2:2005 Basic concepts, general principles for design

EN ISO 12100-2:2009 Construction and design

Part 2: Technical principles

The Technical Construction File is maintained at Geovent A/S.

Authorized to collect the Technical Construction File: Lise Cramer

Date: 08.01.21

Position: Managing director
Name: Thomas Molsen

Signature :



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