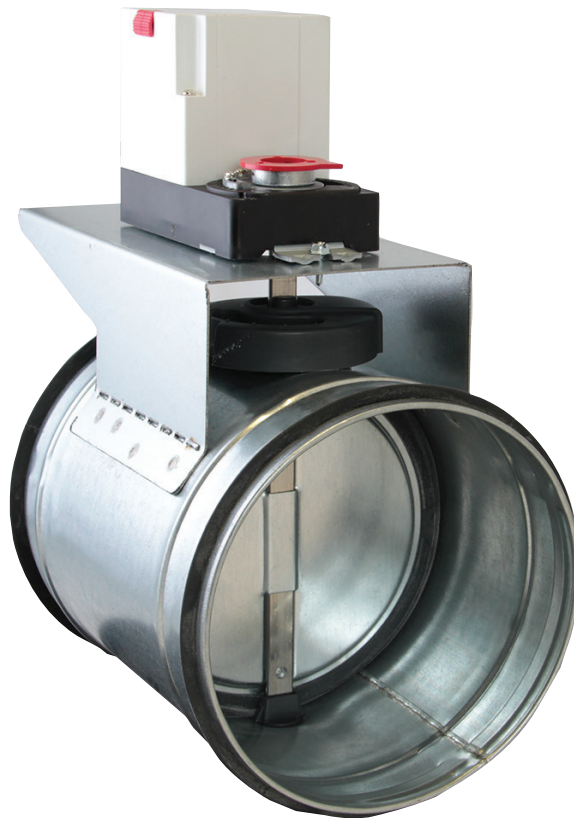




GEOVENT

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. Adjustment:

1. Disconnect the power to the motor damper.
2. Adjust the screws at the metal rail according to the opening of the damper.

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

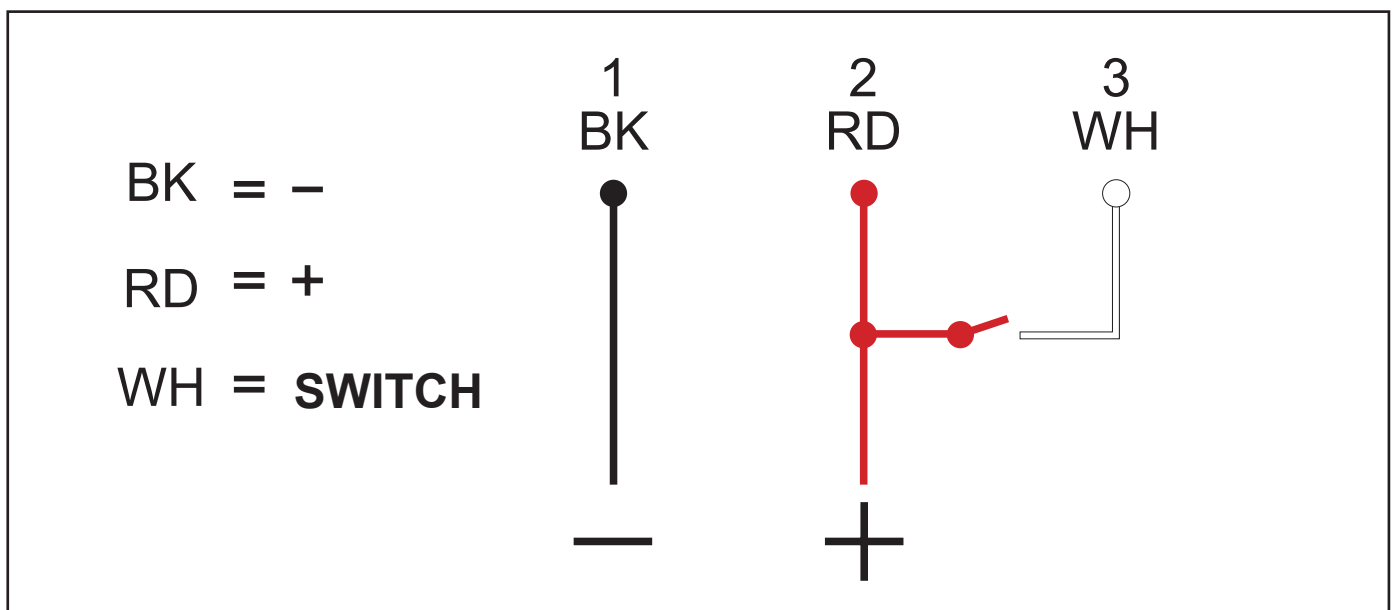
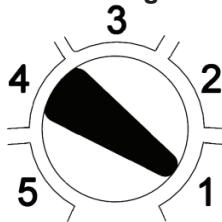
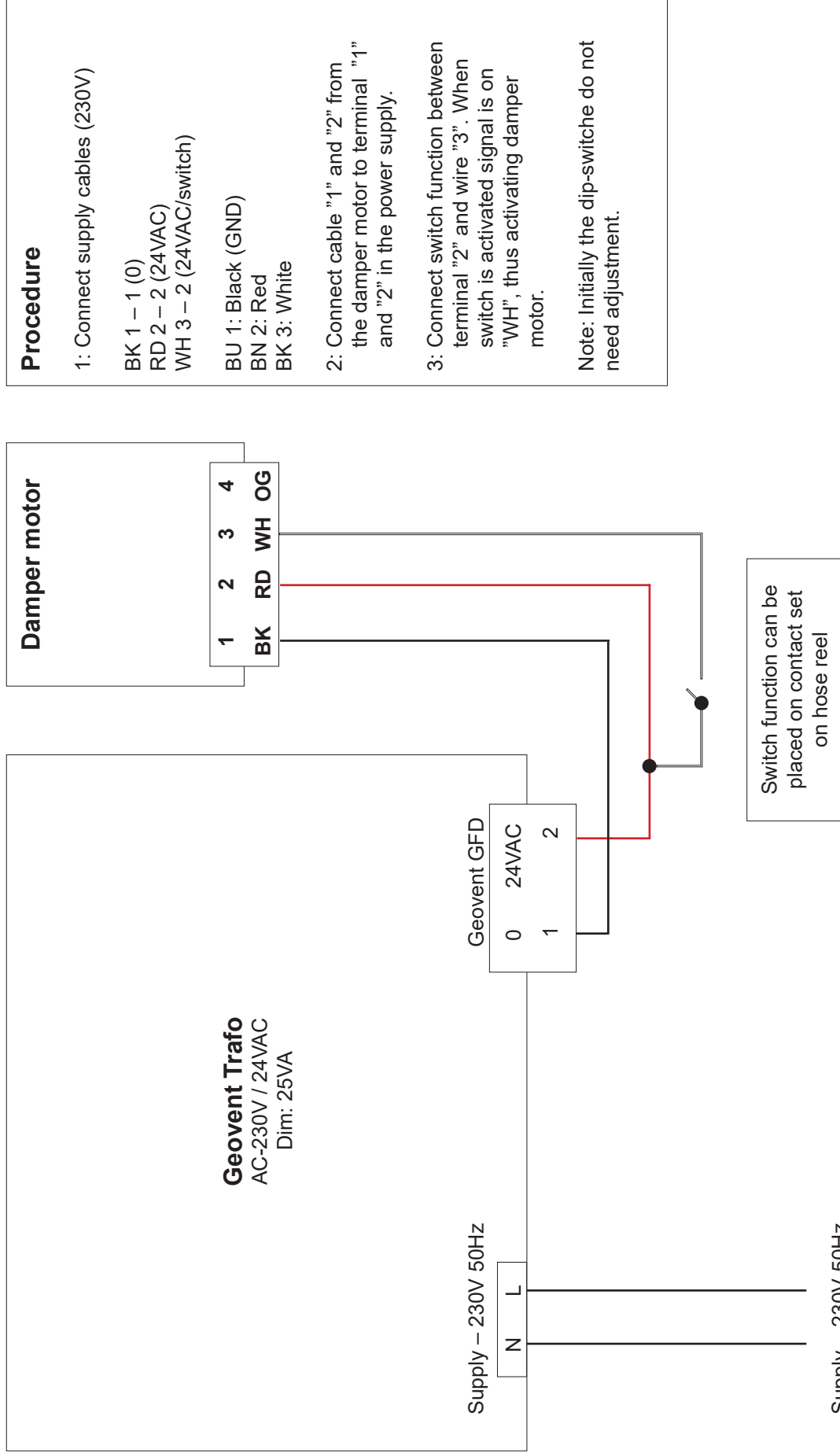


Diagram connection of GFD damper motor



Procedure

1: Connect supply cables (230V)

BK 1 – 1 (0)

RD 2 – 2 (24VAC)

WH 3 – 2 (24VAC/switch)

BU 1: Black (GND)

BN 2: Red

BK 3: White

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 "WH", thus activating damper motor.

Note: Initially the dip-switch do not need adjustment.

5.0 Declaration of conformity.



GEOVENT

HOVEDGADEN 86 • DK-8831 LØGSTRUP
(+45) 8664 2211 • salg@geovent.dk

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 :



GEOVENT

HOVEDGADEN 86 • DK-8831 LØGSTRUP
(+45) 8664 2211 • salg@geovent.dk