

Model	Description	Control	Torque	Power supply
MDB26	Damper actuators	On/Off or floating	15 Nm	230 Vac
MDB46		On/Off or floating		24 Vac/Vdc
MDB56		Proportional 2-10 V		24 Vac/Vdc
MDB26M	Damper actuators with microswitches	On/Off or floating		230 Vac
MDB46M				24 Vac/Vdc



APPLICATION AND USE

MDB26/46/56 are damper actuators operating air control dampers in ventilation and air-conditioning systems in building services installations for air dampers up to approx. 3 m².

TECHNICAL CHARACTERISTICS

Control	On/Off + floating (MDB26/46) Proportional (MDB56)
Power supply	
MDB26	230 Vac (50–60 Hz) ±15%
MDB46/56	24 Vac/Vdc (50–60 Hz) ±20%
Consumption	
MDB26	3.5 W / 3.5 VA
MDB46	4.5 W / 8.0 VA
MDB56	5.5 W / 7.0 VA
Connection cable	900 mm / 0.75 mm ²
Rotation angle	Changeable from outside
Torque	15 Nm with nominal voltage
Running time	
MDB26	120 s @ 90°
MDB46/56	40...80 s @ 90°
Aux. microswitches	n° 2, changeable from outside
Power supply aux. microswitches	
MDB26M	250 Vac / 5 (2.5) A, N.O. contact
MDB46M	24 Vac / 5 (2.5) A, exchange contact
Protection degree	IP54 (downwards cable)
Room temperature	
MDB26	-20T50°C
MDB46/56	-30T50°C
Maintenance	free
Weight	0,7 Kg about

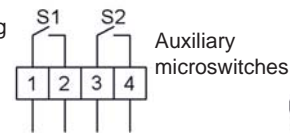
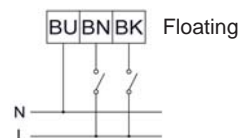
MDB56 only

Control signal Y	0...10Vdc or 2...10Vdc (stand.) or 0...20 mA or 4...20 mA
Feedback signal U	0...10Vdc or 2...10Vdc (stand.) or 10 Vdc or 15 Vdc

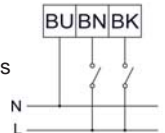
Directive compliance:
EMC 89/336
LVD safety (MDB24) EN 60335-1.

WIRING DIAGRAM

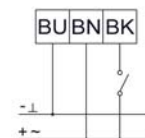
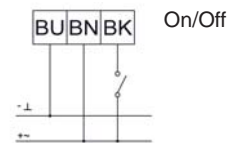
MDB26



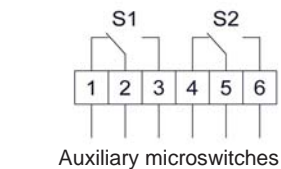
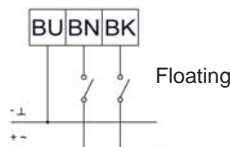
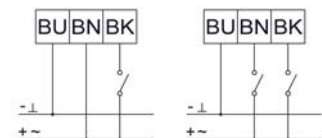
MDB26M



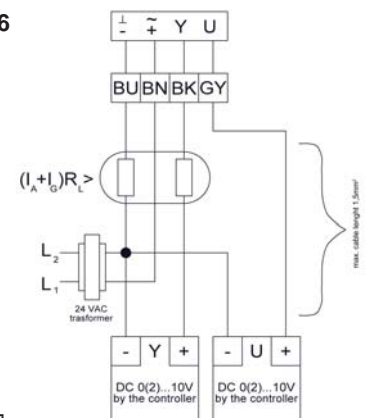
MDB46



MDB46M



MDB56



Legend

Code	Colour	Num.
BU	Blue	cabl 1
BN	Brown	cabl 2
BK	Black	cabl 3
GY	Grey	cabl 4

OPERATION

Adjustment of the rotation angle (Fig. 1)

The damper position is shown on a 0°...90° scale.

Damper shaft locking (Fig. 1)

By the locking clamp to the damper shaft:

Ø 8...12 mm

Ø 8...16 mm

Aux. microswitch setting (Fig. 2) MDB26-46 (Fig. 2)

The changeover cams are not factory adjusted. The auxiliary microswitches can be set by the customer according to the requirements within the 0°... 10° or 80°... 90° ranges.

Rotation direction setting MDB46 (Fig. 3)

The actuator is adjusted to clockwise direction by the factory to "R". For changing the direction of rotation, turn the adjusting knob to "L".

Operating Dip switch configuration MDB56 (Fig. 4)

Control signal Y	OFF	ON
2...10 Vdc (Standard)	1/2	--
0...10 Vdc	2	1
4...20 mA	1	2
0...20 mA	--	1/2
Control signal U		
2...10 Vdc (Standard)	4, (1)	3
0...10 Vdc	4	3, (1)
15 Vdc / 5 mA	3/5	4
10 Vdc / 5 mA	3	4/5

All auxiliary switches are factory set in Off position.

The stroke learning calibration can be activated by applying a 15 Vdc voltage to Y and powering the actuator. At the end of the calibration stage the 15 Vdc signal can be removed.

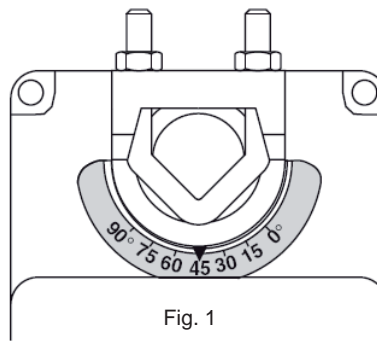


Fig. 1

MDB26-46

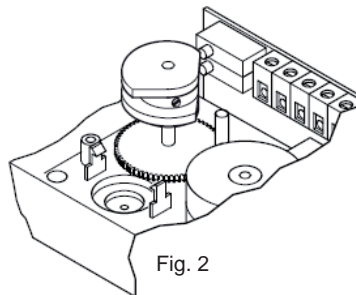


Fig. 2

MDB46

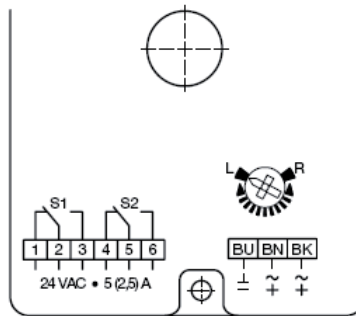


Fig. 3

MDB56

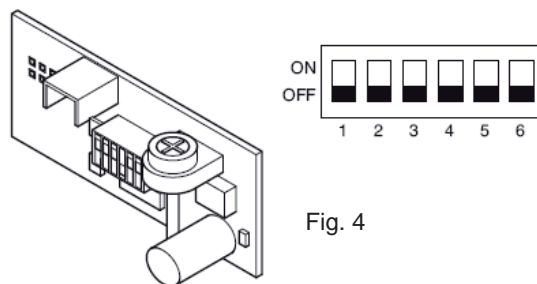
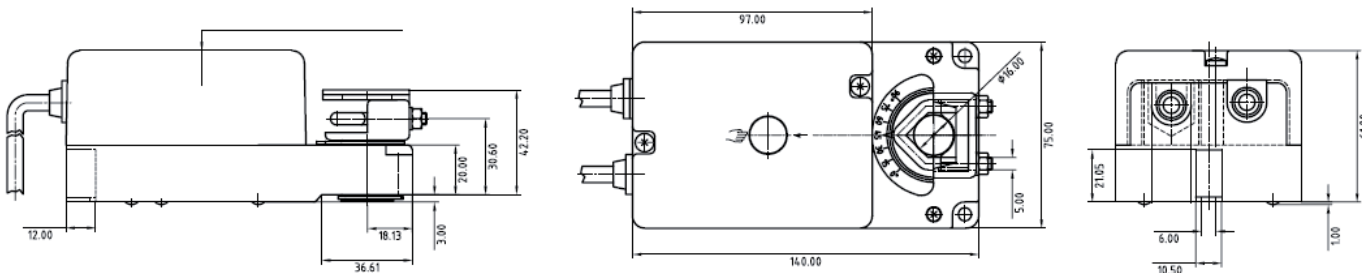


Fig. 4

DIMENSIONS (mm)



The performances stated in this sheet can be modified without any prior notice due to design improvements