MDB28-48-58

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Actuators for Dampers

MODEL	CONTROL	POWER SUPPLY	DESCRIPTION	TORQUE
MDB28	On/Off -	85-265 V AC	Damper actuators	20 Nm
MDB48	3P	24 V AC/DC		
MDB58	0-10 V	24 V AC/DC		
MDB28M	On/Off -	85-265 V AC	Damper actuator with micro auxiliary switches	
MDB48M	3P	24 V AC/DC		



APPLICATION AND USE

MDB28/48/58 are damper actuators operating air control dampers in ventilation and air-conditioning systems in building services installations for air dampers up to approx. 4 m².

TECHNICAL CHARACTERISTICS

DESCRIPTION	MDB28-48-58		
Control	On/Off + floating (MDB28/28M/48/48M) Proportional (MDB58)		
Damper shaft	◊ 918 mm / Ø 926 mm		
Power supply	85-265 V AC (MDB28/28M) 24 V AC/DC (MDB48/48M/58)		
Consumption	3 W/7 VA (MDB28/28M) 3 W/4,5 VA (MDB48/48M/58)		
Connection cable	Supplied cable 1000 mm / 0,75 mm ²		
Angle of rotation	0°max 95°		
Torque	20 Nm		
Running time	< 150 s @90°		
Room temperature	-30°C to 50°C		
Storage temperature	-30°C to 80°C		
Auxiliary switches	2 x SPDT - 250 V AC, 5 (2,5)A (MDB28M/48M only)		
Protection degree	IP54 (downwards cable)		
Weight	1,7 Kg		
Dimensions	Look at the picture on page 2		
Directive Compliance	MDB58 ONLY		
MC CE (201//108/EG)	Control signal (V) $0(2)$ 10 V DC or 4, 20 mA*		

EMC CE (2014/108/EG) LVD - CE (2006/95/EG) EN 60730-1

MDB58 ONLY				
Control signal (Y)	0(2)10 V DC or 420 mA*			
Position feedback (U)	0(2)10 V DC, max 5 mA*			
	* (selectable by dip switch 4)			

The performances stated in this sheet can be modified without any prior notice.

INSTALLATION AND MOUNTING

For actuation and control of dampers in ventilation and air-conditioning applications, the actuators should be mounted in dry environment, absolutely free from acrid fumes. In case of outdoor installation, the actuator has to be protected against climatic influences.

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Damper Shaft Locking (Fig. 1)

By the locking clamp to the damper shaft: ♦ 9...18 mm Ø 9...26 mm

MDB58 only

Through connecting the power supply to BU+BN (1+2) and a reference signal Y to BK (3) of 0(2)...10 V DC, the actuator moves to its specified position. Position feedback 0..100% is available through the feedback signal U (2..10Vdc).

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Different Angular Range Setting

- (1) Power-off the actuator:
- (2) Set the mechanical end stops;
- (3) Connect the actuator to the power supply;
- (4) Put Dip 4 to "ON";
- (5) Actuator gaines the new angular range;
- (6) Now "Y" refers to the new angular range.

OPERATION

On/Off

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R", the actuator moves to position 1. If also BK (1+2+3) is connected to the power supply the actuator is moving to position 0.

3-point

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" the actuator moves to position 1. If the power supply is interrupted the actuator maintains its current position. If also BU+BK (1+3) are connected to the power supply the actuator is moving in direction 0. The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Manual Override

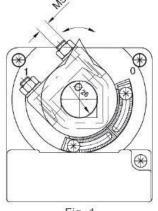
Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

Rotary Direction Switch

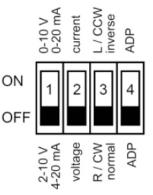
R/CW= clockwise L/ CCW= counter clockwise

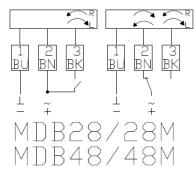


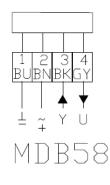
L/CCW

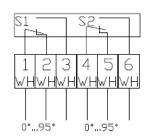








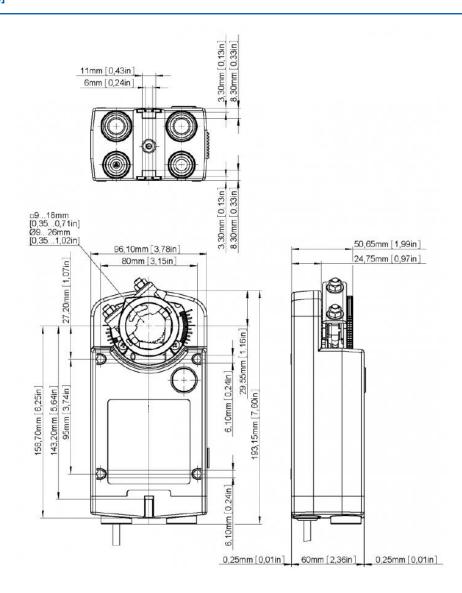




Auxiliary switches

CODE	COLOUR	NUM.
BU	Blue	cable 1
BN	Brown	cable 2
ВК	Black	cable 3
GY	Grey	cable 4

DIMENSIONS [mm]



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