



MD10B -24/-230

G-30-51

On/Off or 3-point 24 V AC/230 V AC  
Damper Actuator 10 Nm (90 in-lb)

6 February 2006

MD10B series damper actuators for operating air control dampers in ventilation and air-conditioning systems for building services installations

- For air control dampers up to approx. 2 m<sup>2</sup> (2.4 yard<sup>2</sup>)
- Torque 10 Nm (90 in-lb)
- Nominal voltage AC/DC 24 V or 230V
- Control: On/Off or 3-point



**TECHNICAL SPECIFICATION**

**Part numbers:**

MD10B-230 ..... 875-1011-000  
MD10B-24 ..... 875-1015-000

**Power supply:**

MD10B-24 ..... 24 V AC ±20%, 50–60 Hz,  
24 V DC ±20%  
MD10B-230 ..... 230 V AC –60% to +15%, 50–60 Hz

**Power consumption:**

**In operation** MD10B-24 ..... 1.5 W @ nominal torque  
MD10B-230 ..... 2.5 W @ nominal torque  
**At rest** MD10B-24 ..... 0.2 W  
MD10B-230 ..... 0.6 W  
**For wire sizing** MD10B-24 ..... 3.5 VA  
MD10B-230 ..... 5.5 VA

**Connection cable** ..... 1 m (3.3 ft), 3x0.75 mm<sup>2</sup> (AWG 18)  
**Angle of rotation** ..... max. 95°

(adjustable by mechanical stops)

**Torque** ..... min. 10 Nm (90 in-lb) @ nominal voltage  
**Running time** ..... 150 s  
**Direction of rotation** ..... Reversible with switch  
**Position indication** ..... mechanical

**Standards conformity:**

EMC, emission ..... SS EN 50081-1  
EMC, immunity ..... SS EN 50082-1  
LVD Safety; MD10B-230 ..... SS EN 60335-1

**Protection class:**

MD10B-24 ..... III Safety extra-low voltage  
MD10B-230 ..... II Totally insulated

**Enclosure rating** ..... IP 54

**Ambient humidity** ..... 95% r.H (EN 60730-1)

**Ambient temperature:**

**Operation** ..... –30 to +50 °C (–22 to +122 °F)  
**Storage** ..... –40 to +80 °C (–40 to +176 °F)

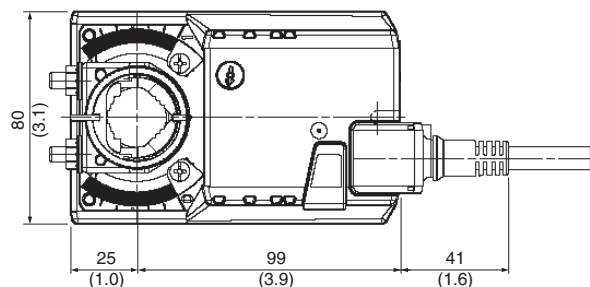
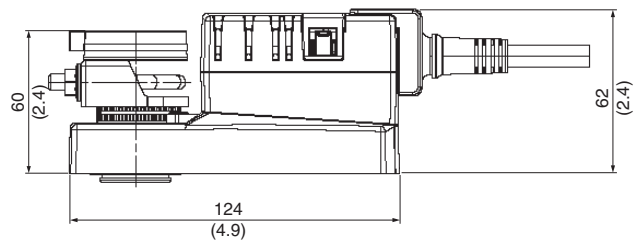
**Sound power level** ..... max. 35 dB (A)

**Maintenance** ..... Maintenance-free

**Weight:**

MD10B-24 ..... Approx 0.75 kg (1.7 lb.)  
MD10B-230 ..... Approx 0.8 kg (1.8 lb.)

**Dimensions in mm (inches)**



Damper spindle	Length mm (in.)	Ø mm (in.)
Clamp on top	min. 40 (1.57)	8 ... 26.7 (0.31 ... 1.04)
Clamp on bottom*	min. 20 (0.78)	8 ... 20 (0.31 ... 0.78)

\* Option (Accessory K-MD10)

## FUNCTION

### Simple direct mounting

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

### Manual override

Manual operation is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed or detented).

### Adjustable angle of rotation

Adjustable angle of rotation with mechanical end stops.


### High functional reliability

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

## WIRING


### MD10B-230

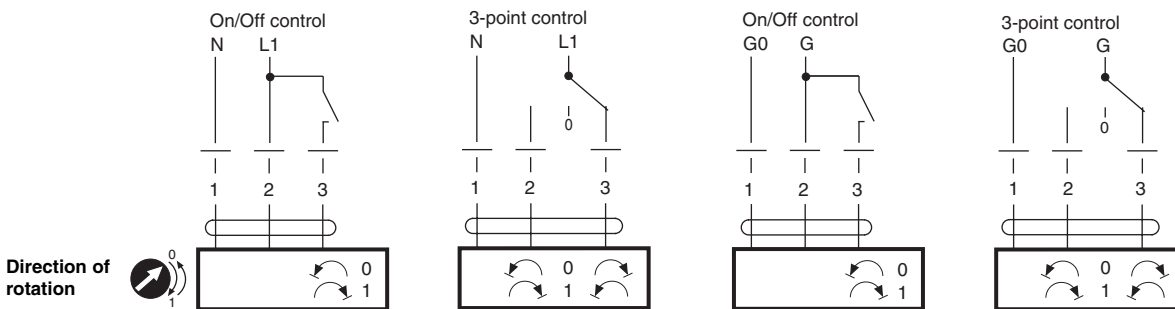
#### Note

- Caution: 230 V voltage! 
- Other actuators can be connected in parallel. Please note the performance data.

### MD10B-24

#### Note

- Connection via safety isolating transformer. 
- Other actuators can be connected in parallel. Please note the performance data.



## ACCESSORIES

Please refer to data sheet G-30-90 "Accessories Damper Actuators" (part.no. 0-003-2251).

## SAFETY NOTES



- The damper actuator is not allowed to be used outside the specified field of application, especially in aircraft-
- Caution: 230 V voltage !

- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- The cables must not be removed from the device.
- When calculating the required torque, the specifications supplied by the damper manufacturers (cross section, design, installation site), and the air flow conditions must be observed.



- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.