

Damper Actuators - Non-spring Return

MD5A, MD10A, MD20A, MD40A

The MD...A are 2...10 V modulating damper actuators designed for operating air control dampers in ventilation and air conditioning systems for building services installations.

As an accessory, these modulating actuators have a fully adjustable auxiliary switch unit.



Specification

Power supply	24 Vac $\pm 20\%$, 50-60 Hz, 24 Vdc $\pm 20\%$
Connection cable	1 m, 4 \times 0.75 mm ² (AWG 18)
Input signal range X	0...10 Vdc
Input resistance	100 k Ohm
Operating range	2...10 Vdc (for set angle of rotation)
Synchronisation tolerance	$\pm 5\%$
Position feedback Y	2...10 Vdc (max. 1 mA)
Direction of rotation	Reversible with switch 0 / 1 at switch position 0 resp 1
Angle of rotation	Max. 95° (adjustable by mechanical stops)
Running time	150 s
Position indication	Mechanical
Manual override	Gearing latch disengaged with pushbutton, self-resetting, manual locking

Standards conformity	
EMC, emission	EN 6100-6-3: 07
EMC, immunity	EN 6100-6-2: 05
Protection class	III Safety extra-low voltage
Enclosure rating	IP 54
Ambient humidity	95% RH, non-condensing
Ambient temperature	
Operation	-30...+50°C
Storage	-40...+80°C
Maintenance	Maintenance free

Part number	Description	Torque Nm	Power Consumption		
			In operation	At rest	For Transformer Sizing
875 1009 000	MD5A-24	5	1 W	0.4 W	2 VA
875 1019 000	MD10A-24	10	2 W	0.4 W	4 VA
875 1029 000	MD20A-24	20	2 W	0.4 W	4 VA
875 1039 000	MD40A-24	40	4.5 W	2 W	6.5 VA

Description	For air control dampers area	Damper spindle	Spindle length, mm	Spindle diameter, mm
MD5	approx. 1 m ²		min. 37	6-20
MD10	approx. 2 m ²	Clamp on top	min. 40	8...26.7
		Clamp on bottom*	min. 20	8...20
MD20	approx. 4 m ²	Clamp on top	min. 48	10...20
		Clamp on bottom	min. 20	10...20
MD40	approx. 8 m ²	Clamp on top	min. 52	12...26.7
		Clamp on bottom	min. 20	12...26.7

* Optional accessory K-MD10 part number 914-1062-000. For damper actuator accessories see page 78.