



DAMPER ACTUATORS, PROPORTIONAL CONTROL (8, 16 ,24 Nm)

DMS, DM, DML

FUNCTION

0(2)...10 Vdc or 0(4)...20 mA damper proportional control.

APPLICATIONS

Well-suited for applications with dampers (2, 4, 6 m²) in ventilation and air handling units.

CHARACTERISTICS

- universal adapter for easy mounting
- shaft dimensions Ø 10...20 mm / 10...20 mm square
- anti-rotation bracket provided for stability
- manual override by push-button
- adjustable angle of rotation
- selectable direction of rotation
- 0(2)...10 Vdc input signal 0(4)...20 mA
- 0...10 Vdc output signal
- parallel connection up to 10 actuators
- 2 adjustable SPDT auxiliary switches when requested
- power saving at end stops

TYPE	POWER SUPPLY	TORQUE
DMS24	24 Vac/dc	8 Nm
DMS230	230 Vac	8 Nm
DM24	24 Vac/dc	16 Nm
DM230	230 Vac	16 Nm
DML24	24 Vac/dc	24 Nm
DML230	230 Vac	24 Nm

Optional:

S with 2 auxiliary switches

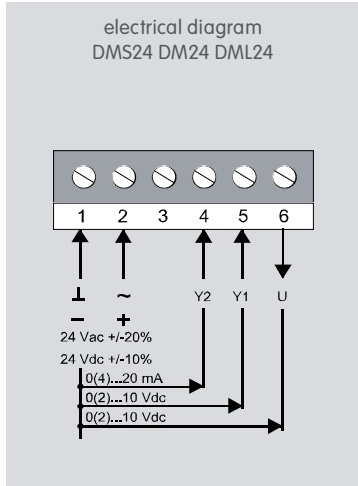
Actuator		DMS24	DM24	DML24	DMS230	DM230	DML230
Damper area (*)	m ²	2	4	6	2	4	6
Torque	Nm	8	16	24	8	16	24
Stroke time	s	30	80	125	30	80	125
Power supply		24 Vac/dc	24 Vac/dc	24 Vac/dc	230 Vac	230 Vac	230 Vac
Frequency	Hz	50...60	50...60	50...60	50...60	50...60	50...60
Power consumption							
- operating	W	4.0	4.0	4.0	4.8	4.8	4.8
- at end stroke	W	0.7	0.7	0.7	1.0	1.0	1.0
For wire sizing	VA	6.5	6.5	6.5	7.5	7.5	7.5
Weight	g	1200	1200	1200	1200	1200	1200
Control signal	Y1	0(2)...10 Vdc	0(2)...10 Vdc	0(2)...10 Vdc	0(2)...10 Vdc	0(2)...10 Vdc	0(2)...10 Vdc
Control signal	Y2	0(4)...20 mA	0(4)...20 mA	0(4)...20 mA	-	-	-
Feedback signal	U	0(2)...10 Vdc	0(2)...10 Vdc	0(2)...10 Vdc	0(2)...10 Vdc	0(2)...10 Vdc	0(2)...10 Vdc
Aux. switches rating		3(1.5) A 230 Vac					
Rotation angle:							
- operating		90° (93° mechanical)					
- limitation		5...85° in 5° steps					
Protection class		II	II	II	II	II	II
Degree of protection		IP44 or IP54 with cable glands					
Room temperature		-20...+50°C	-20...+50°C	-20...+50°C	-20...+50°C	-20...+50°C	-20...+50°C
Room humidity		5...95% r.h.	5...95% r.h.	5...95% r.h.	5...95% r.h.	5...95% r.h.	5...95% r.h.
Maintenance		free	free	free	free	free	free
Standards		CE	CE	CE	CE	CE	CE

(*) the indication of the damper area is not significant, the data that must be taken into account is the value of the torque in N.m



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Control signal setting

Control signal Y1: 0(2)...10 Vdc
Input resistance: Ri 100 kOhm

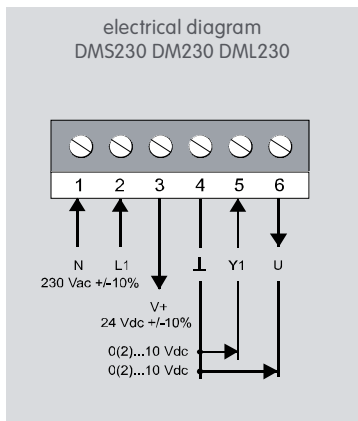
Control signal Y2: (4)...20 mA
Input resistance: Ri 500 Ohm

Feedback signal U: 0(2)...10 Vdc
Load resistance: > 50 kOhm

0...10 Vdc
0...20 mA



2...10 Vdc
4...20 mA



Direction of rotation setting

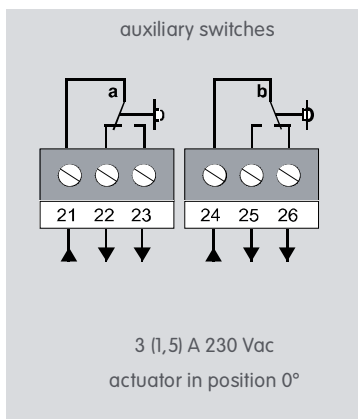
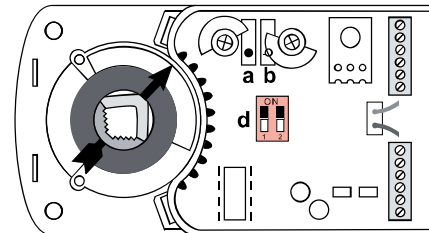
Microswitch **d**



clockwise

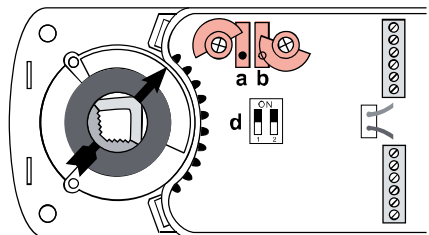


counterclockwise



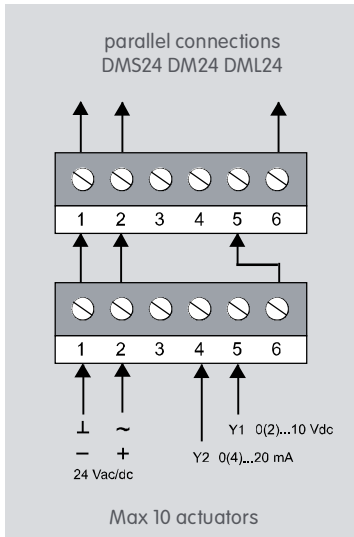
Auxiliary switches setting

Factory setting:
Switch a at 10°
Switch b at 80°
The switching position can be changed manually.

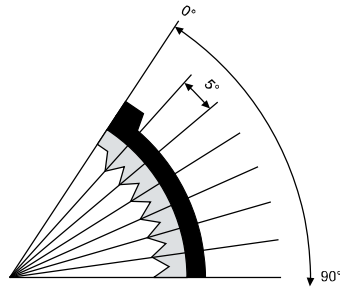


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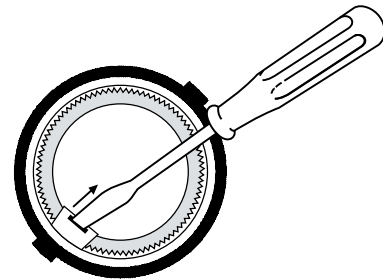
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Limitation of rotation angle



Adapter release



DIMENSIONS (mm)

