



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 (1.5, 3, 4.5 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

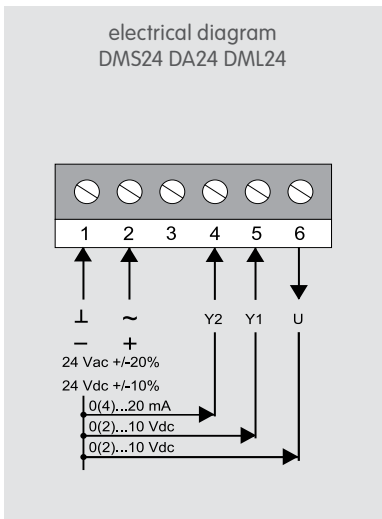
Actuator		DMS24	DM24	DML24	DMS230	DM230	DML230
Damper area (*)	m ²	1,5	3	4,5	1,5	3	4,5
Torque	Nm	8	16	24	8	16	24
Stroke time	s	35...45	80...110	125...160	35...45	80...110	125...160
Power supply		24 Vac/Vdc	24 Vac/Vdc	24 Vac/Vdc	230 Vac	230 Vac	230 Vac
Frequency	Hz	50...60	50...60	50...60	50...60	50...60	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 / AC 230 V					
Rotation angle:							
- operating		90° (93° mechanical)					
- limitation		5...85° in 5° steps					
Protection class		III	III	III	II	II	II
Degree of protection		IP44 or IP55 with cable glands					
Room temperature		-20...+50°C	-20...+50°C	-20...+50°C	-20...+50°C	-20...+50°C	-20...+50°C
Humidity temperature		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



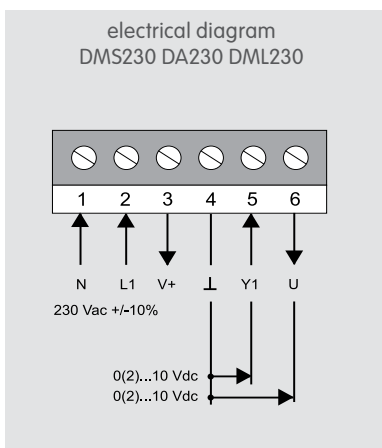
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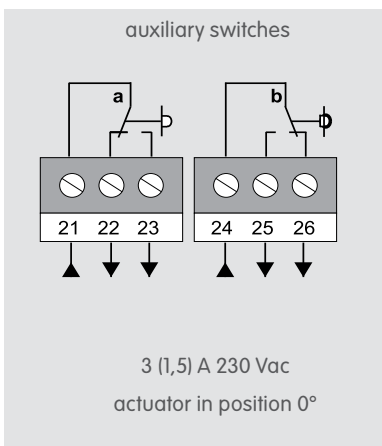
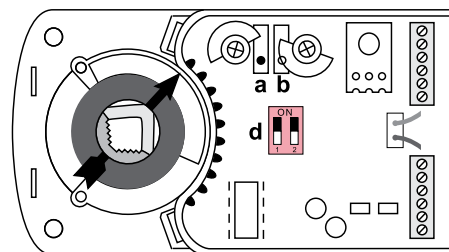
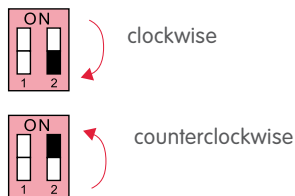
Control signal setting

Control signal Y1:	0(2)...10 Vdc	0...10 Vdc
Input resistance:	Ri 100 kOhm	0...20 mA
Control signal Y2:	4)...20 mA	
Input resistance:	Ri 500 Ohm	
Feedback signal U:	0(2)...10 Vdc	2...10 Vdc
Load resistance:	> 50 kOhm	4...20 mA



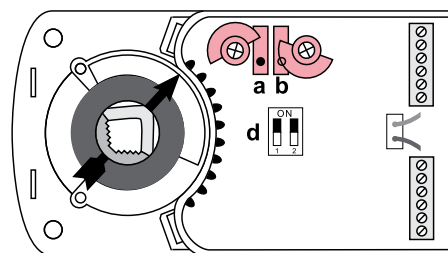
Direction of rotation setting

Microswitch d



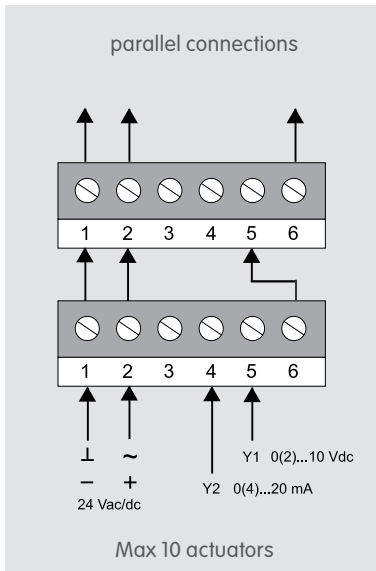
Auxiliary switches setting

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

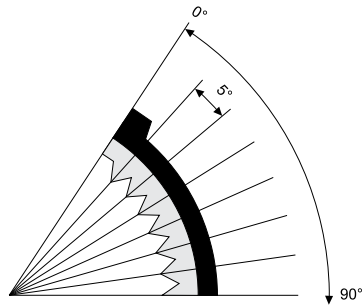


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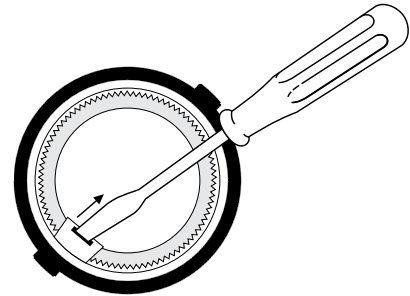
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Limitation of rotation angle



Adapter release



DIMENSIONS (mm)

