



SPRING RETURN DAMPER ACTUATORS (5 Nm)

DANxF, DMNxF

FUNCTION

On / Off or modulating spring return damper control.
The actuator opens the damper loading the return spring; with current cut-off the spring moves the damper in a safe position.

APPLICATIONS

Well-suited for applications with security dampers used as antifreeze, antismoke or for sealing in the hygienic-sanitary field.

TYPE	POWER SUPPLY	SIGNAL CONTROL	AUXILIARY SWITCHES
DAN24F	24 V AC/DC	On/Off	-
DAN24FS	24 V AC/DC	On/Off	2
DMN24F	24 V AC/DC	Modulating	-
DMN24FS	24 V AC/DC	Modulating	2
DAN230F	90...250 V AC	On/Off	-
DAN230FS	90...250 V AC	On/Off	2

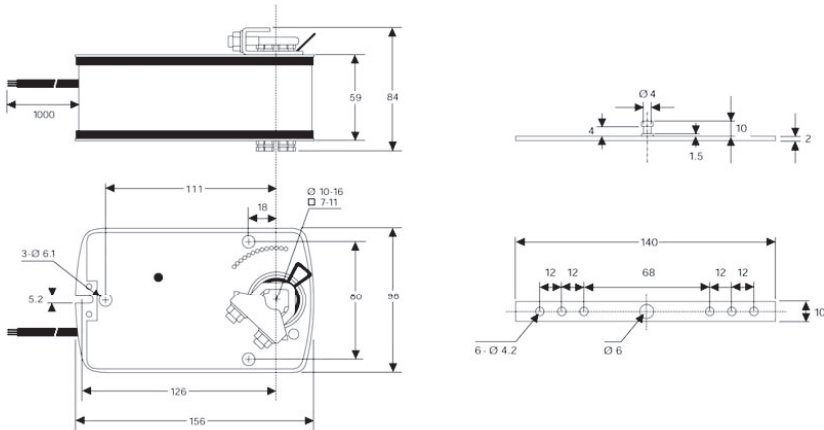
Actuator	DAN24F	DMN24F	DAN230F
Damper area (*)		1.0 m ²	
Torque		5 Nm	
Power supply	24 V AC/DC	24 V AC/DC	90...250 V AC
Frequency		50...60 Hz	
Power consumption			
- operating		5.0 W	
- at the end stops		2.5 W	
For wire sizing	10 VA	7 VA	10 VA
Connection motor	1 m, 2 x 0,75 mm ²	1 m, 4 x 0,5 mm ²	1 m, 2 x 0,75 mm ²
Connection auxiliary switches (suffix S in part number)		1 m, 6 x 0,5 mm ²	
Aux. switches rating (2 x SPDT) (suffix S in part number)		3(1.5) A 250 V AC	
Running time			
- motor	50...70 s	90...120 s	50...70 s
- spring back		< 20 s	
Noise level		< 45 dB (A)	
Weight	1800 g	1800 g	1900 g
Control signal	On/Off	0...10 V DC	On/Off
Rotation angle			
- operating		0...90° (max 93° mechanical)	
- limitation		5...85° in 5° steps	
Direction of rotation		bidirectional	
Protection class		II	
Degree of protection		IP54	
Room temperature		-20 ... +50°C	
Room humidity		5...95% r.h.	
Maintenance		free	
Standards		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 Nm.

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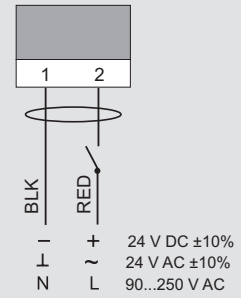
DANxF, DMNxF

DIMENSIONS (mm)

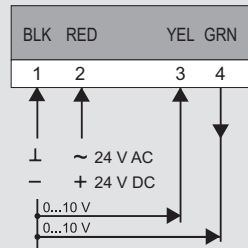


Wiring diagrams

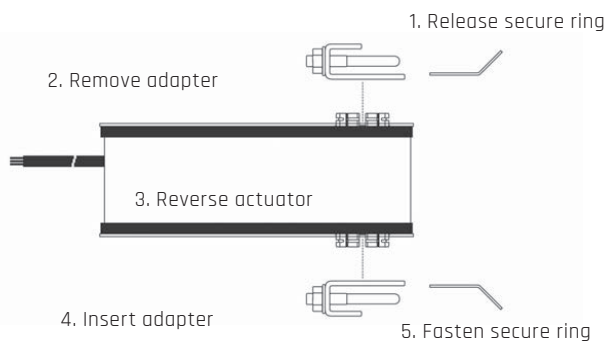
DANxF



DMNxF

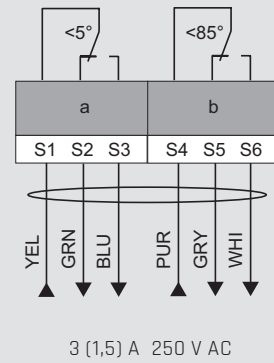


Direction of rotation setting



BLK - black
 RED - red
 YEL - yellow
 GRN - green

Fixed auxiliary switches



Limitation of rotation angle

For 5° to 45° (see fig. 1)

1. Loosen screw of the mechanical limiter plate.
2. Move the limiter plate to the appropriate position.
3. Tighten the screw.

For 45° to 85° (see fig. 2)

1. Release the secure ring of the adapter.
2. Remove the adapter and turn negative 45° as shown.
3. Insert adapter and secure the adapter ring.
4. Loosen screw of the mechanical limiter plate.
5. Move the limiter plate to the appropriate position.
6. Tighten the screw.

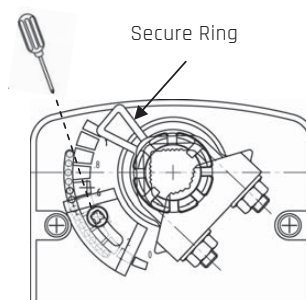


fig. 1

5° to 45° setting

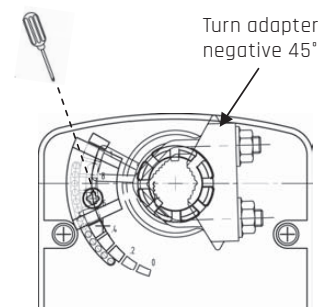


fig. 2

45° to 85° setting