



## SPRING RETURN DAMPER ACTUATORS (5 Nm)

**DANxF**

### FUNCTION

On / Off 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
DAN24F	24 V AC/DC	On/Off
DAN24FS	24 V AC/DC	On/Off
DAN230F	230 V AC	On/Off
DAN230FS	230 V AC	On/Off

S models with 2 fixed auxiliary switches

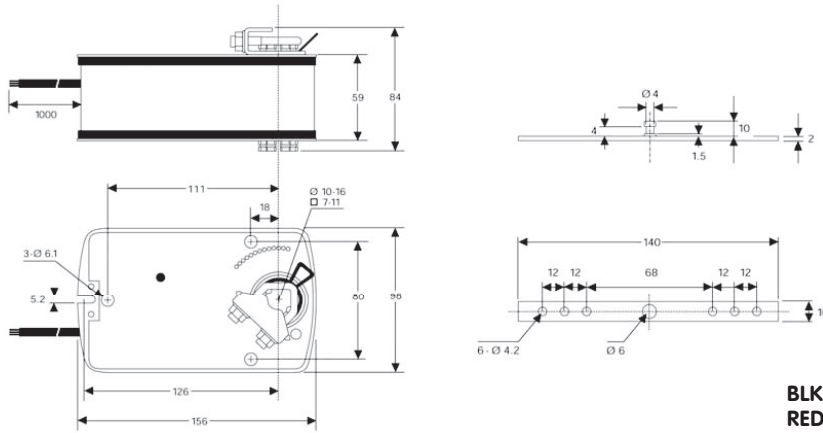
Actuator	DAN24F	DAN230F
Damper area (*)	1.0 m <sup>2</sup>	1.0 m <sup>2</sup>
Torque	5 Nm	5 Nm
Power supply	24 V AC/DC	230 V AC
Frequency	50...60 Hz	50...60 Hz
Power consumption		
- operating	7.2 W	4.2 W
- at the end stops	2.5 W	2.5 W
For wire sizing	10.0 VA	10.0 VA
Connection motor	1 m, 2 x 0,75 mm <sup>2</sup>	1 m, 2 x 0,75 mm <sup>2</sup>
Connection auxiliary switches	1 m, 6 x 0,5 mm <sup>2</sup>	1 m, 6 x 0,5 mm <sup>2</sup>
Aux. switches rating (2 x SPDT)	3(1.5) A 230 V AC	3(1.5) A 230 V AC
Running time		
- motor	50...70 s	50...70 s
- spring back	< 20 s	< 20 s
Noise level	< 45 dB (A)	< 45 dB (A)
Weight	1800 g	1900 g
Control signal	On/Off	On/Off
Rotation angle		
- operating	90° (95° mechanical)	90° (95° mechanical)
- limitation	5...85° in 5° steps	5...85° in 5° steps
Direction of rotation	bidirectional	bidirectional
Protection class	II	II
Degree of protection	IP54	IP54
Room temperature	-20 ... +50°C	-20 ... +50°C
Room humidity	5...95% r.h.	5...95% r.h.
Maintenance	free	free
Standards	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 Nm..

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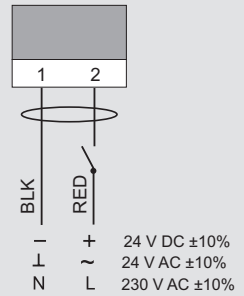
DANxP

## DIMENSIONS (mm)

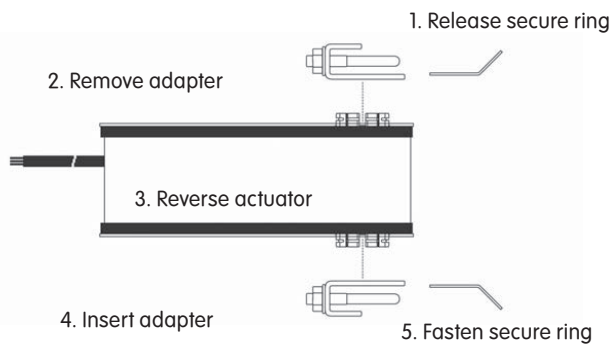


BLK - black  
RED - red

## Wiring diagrams

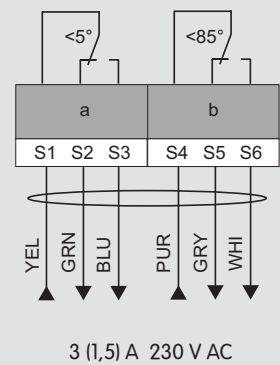


## Direction of rotation setting



YEL - yellow  
GRN - green  
BLU - blue  
PUR - purple  
GRY - grey  
WHI - white

## Fixed auxiliary switches



## Limitation of rotation angle

For  $5^\circ$  to  $45^\circ$  (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  $45^\circ$  to  $85^\circ$  (see fig. 2)

1. Release the secure ring of the adapter.
2. Remove the adapter and turn negative  $45^\circ$  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.

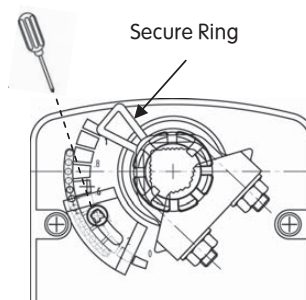


fig. 1

$5^\circ$  to  $45^\circ$  setting

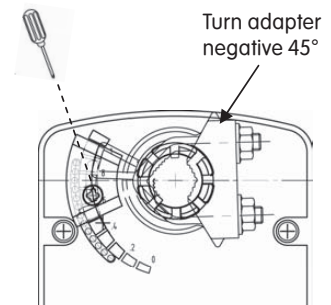


fig. 2

$45^\circ$  to  $85^\circ$  setting

