



## Actuator for operating dampers in air handling systems

- \* For torque up to 20 Nm
- \* For dampers up to approx. 4 m<sup>2</sup>
- \* On/Off or 0...10 V control
- \* Manual operation by pushbutton disconnection
- \* Reversible direction of rotation

### Function

#### Field of application

The motor RDA20... is used to operate dampers in air handling systems.

#### Simple installation

The damper actuator is fitted with a universal spindle clamp for quick and easy mounting directly on the damper spindle. The actuator is supplied with an antirotation strap for fixing it in position.

The gearing can be disengaged by simply pressing the pushbutton on top of the case. As long as the

pushbutton remains depressed, the damper can be operated by hand and be set to any position. The damper actuators are supplied with 0.9 m of cable.

#### Rotation angle

The damper actuator has adjustable limit switches that are easily adjusted to give the desired angle of rotation.

#### Shaft size

Round shaft  $\varnothing$  9...20 mm  
 Square shaft  $\square$  9...16 mm

### Models

Type	Control signal	Supply voltage	Features
RDA20-24	On/off	24 V AC	
RDA20-230	On/off	230 V AC	
RDA20-24A	0...10 V	24 V AC	(2...10 V working range)

## Technical data

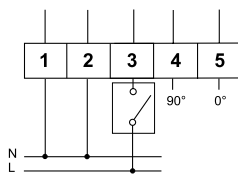
Supply voltage	RDA20-24...	24 V AC 50/60 Hz
	RDA20-230	230 V AC 50/60 Hz
Power consumption	RDA20-24	5.0 VA
	RDA20-230	5.0 VA
	RDA20-24A	12.0 VA
Direction of rotation	Reversible	
Torque	20 Nm	
Angle of rotation	Max. 90°	
Running time	150 s	
Position indication	Mechanical	
Degree of protection	IP54	
Ambient temp. range	-20°...+50°C	
<b>CE</b>	This products conform with the requirements of European EMC and LVD according to 89/336/EEC and 92/31/EEC and carry the CE mark.	

### Unique features RDA20-24A

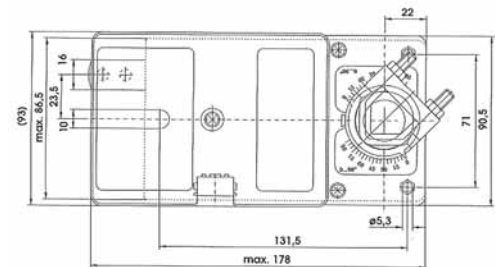
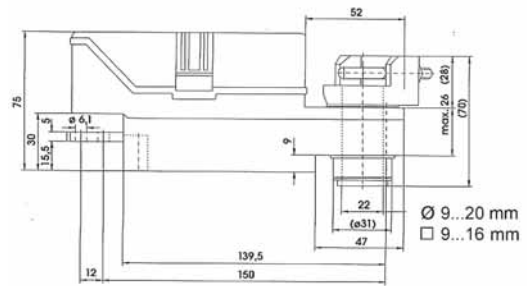
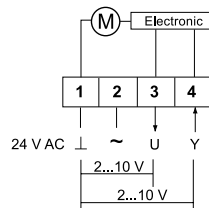
Control signal Y	0...10 V DC @ input resistance=100 kΩ
Operation range	0...10 V DC, can be changed, se chart below
Position feedback	0...10 V DC @ Max. 0.5 mA

## Wiring and dimensions

On//Off

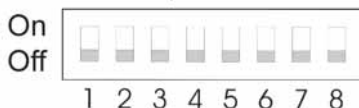


0...10 V



### Adjustments of the functions for the 0...10 V model

DIL switches on p.c.b.



Switches not in use must be at position OFF

A. Input voltage to terminal 1 and 4	1 OFF	0...10 V
	1 ON	2...10 V
B. Input current to terminal 1 and 3	1 OFF / 4 ON	0...20 mA
	1 ON / 4 ON	4...20 mA
C. Direction of rotation	2 OFF	0...90°
	2 ON	90...0°
D. Output voltage from terminal 1 and 3	1+2+3 OFF / 5+6 ON	0...10 V DC (0...90°)
	1+3+5+6 ON / 2 OFF	2...10 V DC (0...90°)
	1+3 OFF / 2+5+6 ON	0...10 V DC (90...0°)
	1+2+3+4+5+6 ON	2...10 V DC (90...0°)
E. Fixed Output voltage for the positions, terminal 1 and 3	5+7 ON / 6 OFF	10 V DC
	5+6+7 OFF / 8 ON	15V DC