RDA15-series

Damper actuator, 15 Nm

Actuator for operating dampers in air handling systems

* For torque up to 15 Nm
* For dampers up to approx. 2 m²
* On/Off, or 0...10 V control
* Reversible direction of rotation
* Manual operation by pushbutton disconnection

Function

Field of application

The motor RDA15… is used to control 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 Ø 8...16 mm
Square shaft □ 8...12 mm

Models

Type	Control signal	Supply voltage	Features
RDA15-24	On/off	24 V AC	
RDA15-230	On/off	230 V AC	
RDA15-24A	0...10 V	24 V AC	(2...10 V working range)

Technical data

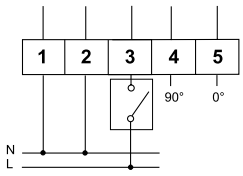
Supply voltage	RDA15-24...	24 V AC 50/60 Hz
	RDA15-230...	230 V AC 50/60 Hz
Power consumption	RDA15-24...	5 VA
	RDA15-230...	5 VA
	RDA15-24A	12 VA
Direction of rotation	Changeable	
Torque	15 Nm, at rated voltage	
Angle of rotation	90°	
Running time	100 s	
Position indication	Mechanical	
Degree of protection	IP54	
Ambient temp. range	-20°...+50°C	
CE	These 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 RDA15-24A

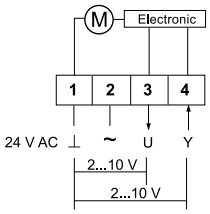
Control signal Y	0...10 V DC @ input resistance=100kΩ (other signals selectable, see below)
Position feedback	0...10 V DC

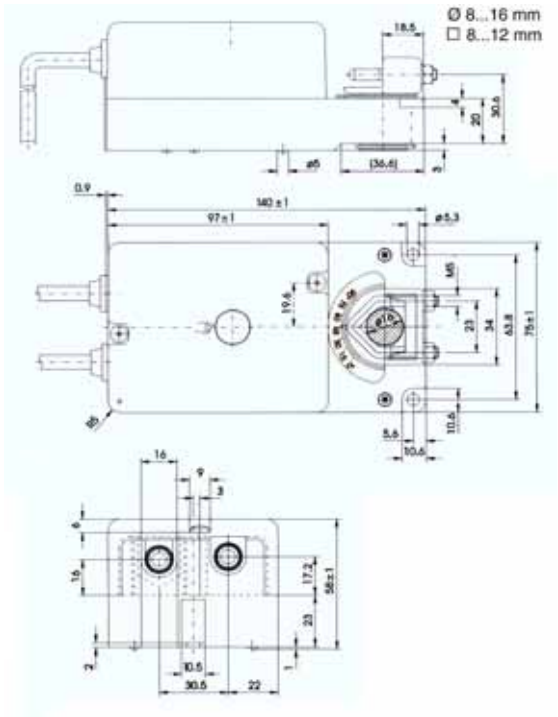
Wiring and dimensions

On/Off

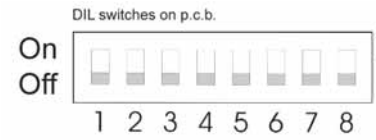


0...10 V





Adjustments of the functions for continuous control



Switches not in use must be at position OFF

	Switch position	
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

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