RM8 24D

Features

- **8 Nm torque to regulate dampers up to approx. 1.6 m²**
- **Control signal on/off or 3-point**
- **Power supply 24 Vac and 230 Vac**
- **Running time 156 sec.**
- **Suitable shaft dimensions**
  Max. 13 mm
  Min. 10 mm
- **Position indicator**
- **Angle of rotation changeable from outside**
- **Direction changeable via wiring diagram**
- **On request**
  2 Nm torque (running time 72 seconds)
  4 Nm torque (running time 108 seconds)
  6 Nm torque (running time 108 seconds)
- **On request**
  1 auxiliary switch
  2 auxiliary switches

Technical data

Torque	8 Nm
Power supply	24 Vac +/-10% 230 Vac +/-10% (50/60 Hz)
Control signals	on/off or 3-point
Running time	156 sec.
Position indicator	Mechanical indication
Angle of rotation	Max. 95° (changeable from outside)
Direction of rotation	Via wiring diagram
Power consumptions	3.0 VA for 24 Vac 6.0 VA for 230 Vac
Noice level	Max. 45dB(A)
Connection	Via terminals 0.5 mm² to 1.5 mm²
Protection	IP42
Ambient temperature	-5 to +50°C
Storage temperature	-30 to +70°C
Usage life	>60000 times
Maintenance	Maintenance free
CE	approved
Weight	760 g

Ordering

Type no.	Description			
Damper actuator				
RM8 24D	8 Nm	on/off or 3-point	24 Vac	156 sec.
RM8 230D	8 Nm	on/off or 3-point	230 Vac	156 sec.

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Description

RM on/off type damper actuator uses bi-directional motor.

High dependable performance

RM8 on/off type damper actuator uses bi-directional magnetic clutch synchronous motor. It has overload protection function, and does not need limitator switch. The actuator will stop automatically, because the motor is clutched when it is operating to the end. And the damper actuator has a better precision adjustable mechanical limitator, and 1~2 auxiliary switches can be selected for optional.

Adjustable limitator with precision of 15º.

Optional overtime protection for longer motor life.
1 or 2 optional auxiliary switch(es), the function of which can be made by order. The operational angle of the damper actuator which has 2 limitators can be adjusted by setting the peak turnplate. The adjustable feedback position is larger than 60º on clockwise, and small than 30º on anti-clockwise. Please find the installation details at Fig.4. The default setting of one switch type is at 90°,
and that of two switches type is at 0° and 90°.

The 24 volt DC self-setting function is only for 24 volt AC damper actuator. It can supply enough power to let the damper actuator go back to 0°, when power supply is suddenly cut off.

Simple and convient function testing

It is also convenient to test the function of damper operation: push the manual button on the actuator,
the gearings inside the actuator will break away.
The damper can be operated manually as keeping push the manual button.
PLEASE DO NOT OPERATE WHEN POWER IS ON!

Installation and connection details

All connections to BEMS controllers, data recorders etc. should be made using screened cable.

Normally the screen should be earthed at one end only (usually the controller end) to avoid earth hum loops which can create noise.

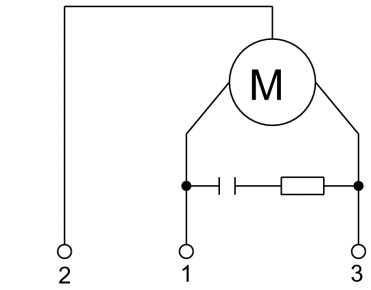
Low voltage signal and supply cables should be routed separately from high voltage or mains cabling.

Separate conduit or cable trays should be used.

Where possible, the controller´s earth should be connected to a FUNCTIONAL EARTH, rather than the mains safety earth. This will provide better immunity to high frequency noise. Most modern buildings have a separate earth from this purpose.

All system wiring must be in compliance with all applicable

Wiring



TERMINALS	ROTATE DIRECTION
1-2	↺
3-2	↻

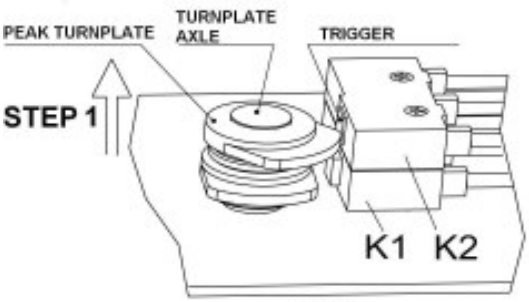


Fig.4

TESTING STEPS:

1. **Take the peak turnplate out.**
2. **Turn the axle to the needed position, then put the peak turnplate back, make sure the peak is just against the trigger. (As Fig.4)**

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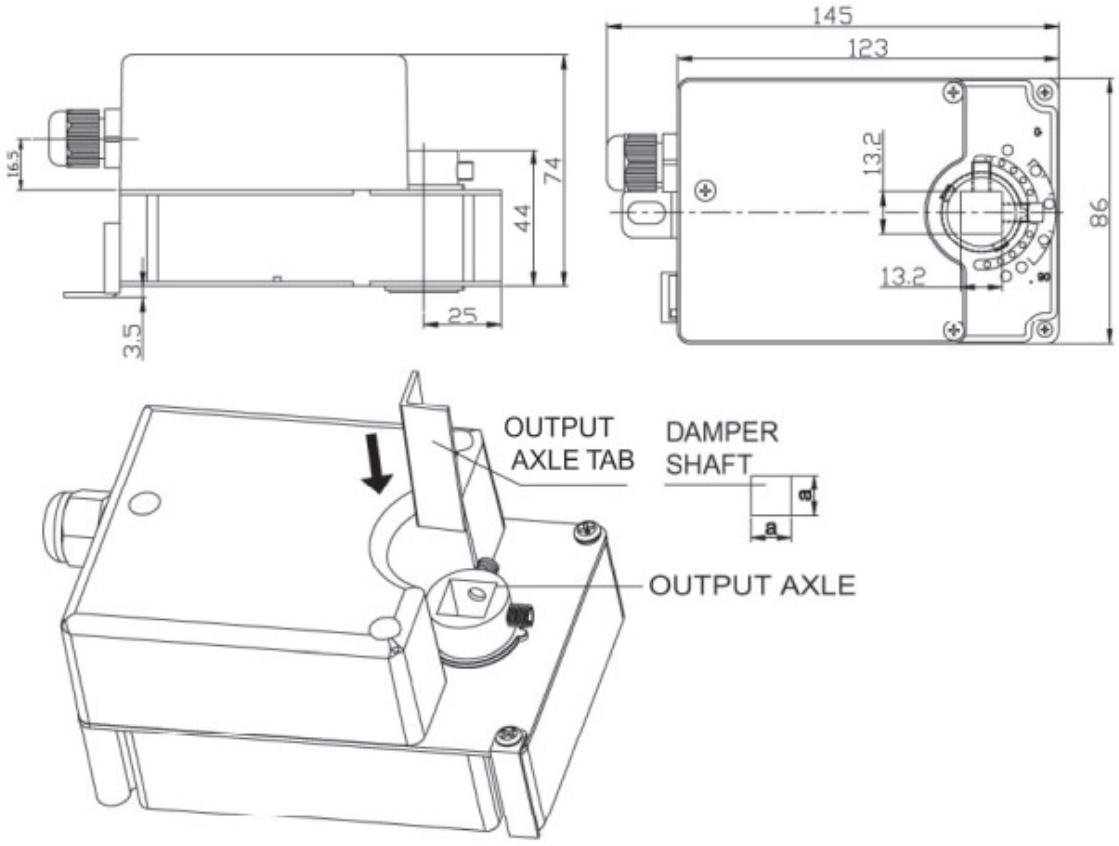
Dimensions



Accessories supplied to the damper actuator

2 limitative baffles, 2 baffle setscrews (M3×6), 1 actuator body setscrews (ST4.8X12.5) and 1 aluminium gasket (output axle tab).

Damper shaft dimensions

Max shaft dimension is 13 mm.

Min. shaft dimension is 10 mm when the output axle tab is used.

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