Damper Actuator 8Nm
Analogue Control Signal RM 8

April.08

CE RM8

Technical Data

Power supply	24Vac +/- 10%
Power consumptions	4VA when operating
Control Signals	0-10Vdc for RM 24M 2-10Vdc/4-20mA for RM24X (jumper selectable)
Torque	8Nm
Protection class	IP42
Electrical connection	Via Terminals 0,5 to 1,5mm2 Screened cable
Direction of rotation	Changeable via jumpers pn pcb
Manual override	Push button
Angle of rotation	Maximum 95° (changeable form outside)
Adapter for axis	Max 13m, Min 11mm
Running time	156 sec
Noise level	Motor < 45 dB (A)
Usage life	Min. 60´000 open-close operations
Position indication	Mechanical
Ambient temperature:	-5…+ 50°C
Storage temperature:	-30…+ 70°C
Ambient humidity:	5…95%
Weight	760g
Maintenance	Maintenance free
Standards	The actuators meet CE requirements

Features

- **8Nm torque to regulate dampers up to appr. 1,6m2**
- **0-10Vdc and 2-10Vdc/4-20mA jumper selectable**
- **Very quiet operation**
- **Direct mounting even in limited spaces**
- **Simple manual override**

Short Description

By using the mounting clamp the actuators can be direct couple mounted over the damper shaft

The compact size allows for easy installation where space is limited.

Simple installation

Fix with square damper shaft.
Damper shaft dimensions see Dimensions next page.

The rotating angle of the actuator can be set by internal potentiometer (PT1).

The match between working range
and feedback signal is automatically done by the actuator.

Manual operation

It can be operated manually if needed:

Push the manual button on the actuator,
the gearings inside the actuator will break away.

Please do not operate when power on.

High dependable performance

RM8 24M and RM8 24X damper actuators uses bi-directional magnetic clutch synchronous motor.

It has overload protection and overtime protection, and no need limitator needed, the actuator will stop automatically when it runs to the end.

And the damper actuator has a precision of 15° adjustable mechanical limitator.

Ordering

RM8 24M Damper Motor 8Nm 24Vac 0-10Vdc
RM8 24X Damper Motor 8Nm 24Vac 2-10Vdc,4-20mA

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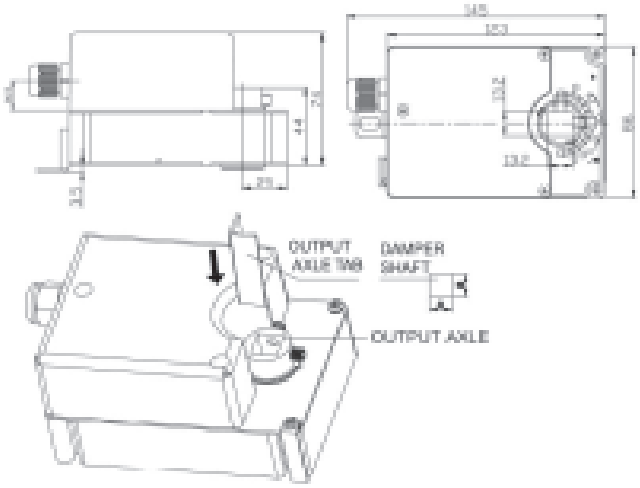


Accessories supplied to the damper actuator

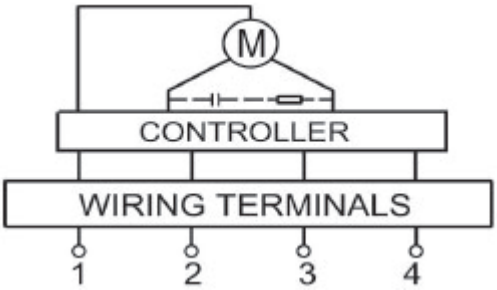
2 limitative baffles,
2 baffle setscrews (M3×6),
1actuator body setscrews (ST4.8X12.5)
1 aluminium gasket (output axle tab).

Damper shaft dimensions

Max shaft dimension is 13 mm.

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

Wiring



1. Power supply 24Vac
2. COM
3. Control signal
   0-10Vdc for RM8 24M
   2-10Vdc or 4-20 mA for RM8 24VC
4. Feedback signal
   0-10Vdc

As power supply is 24 Vac,
also the wiring for 4-20 mA is 3-wires.

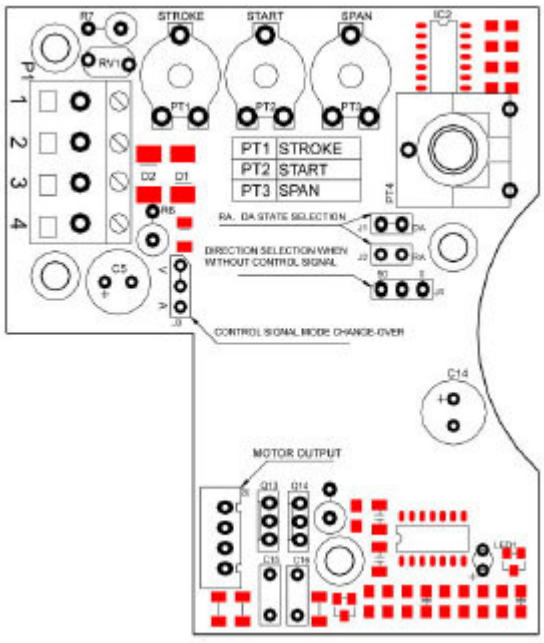
Control signals

RM8 24M with 0-10Vdc control signal, the setting position of jumper J3 must be at point V (factory setting)

RM8 24X with 0-10Vdc or 4-20mA selectable control signal
position of jumper J3 to be at point V
for 2-10 Vdc control signal.

position of jumper J3 to be se at point A
for 4-20 mA control signal.

INPUT CONTROL SIGNAL		ROTATE DIRECTION
DA	RA	
INCREASING	DECREASING	↻
DECREASING	INCREASING	↺



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