



STANDARD

MODULATING Actuators

2.26

Application

The JOVENTA STANDARD electric damper-actuator series is designed to operate air dampers in ventilation and air conditioning systems.

The compact design and universal adapter fitted with limitation of rotation angle make this JOVENTA actuator highly versatile.

Key features

- DC0(2)...10V control
- Up to 5 actuators in parallel operation possible
- Plug-in terminal block connection
- Simple direct-mount with universal adapter on Ø 10 mm to 20 mm shaft or square shaft from 10 mm to 16 mm. 48 mm minimum damper shaft length
- Selectable direction of rotation
- Limitation of rotation angle
- Manual release button
- 2 adjustable auxiliary switches
See back page for settings
- Automatic shut-off at end position (overload switch)
- Energy saving at end positions
- Actuators available with 1 m halogen-free cable
- Customized versions available
- Devices meet CE requirements

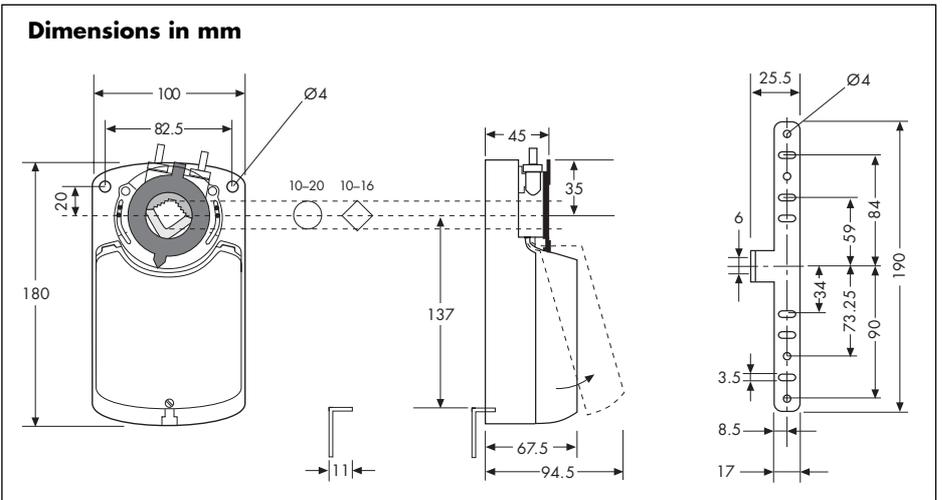
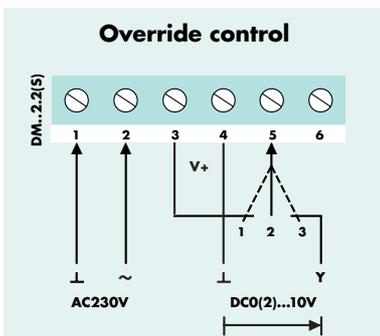
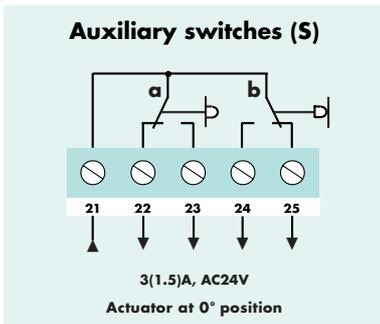
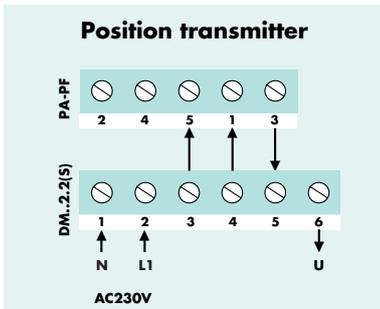
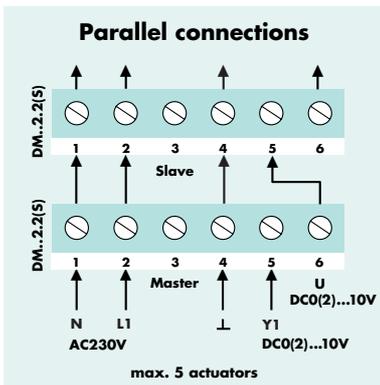
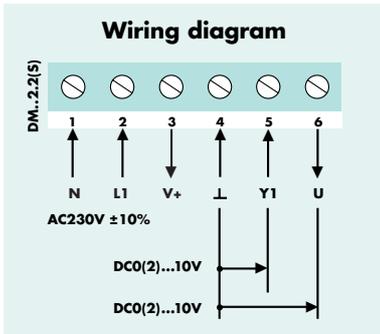
Accessories

- ZK damper linkage selection
- ZKG ball joints
(see product sheet 6.10)

Nomenclature/Specification/Technical data

| | |
|-----------|----------------------------------|
| DM...2.2 | AC230V |
| DM...2.2S | AC230V with 2 auxiliary switches |
|K | with 1 m halogen-free cable |

| Actuator | | DMS2.2(S) | DM2.2(S) | DML2.2(S) |
|-----------------------------------|----|---------------------------|------------------------------------|--------------------|
| Torque | | 8 Nm | 16 Nm | 24 Nm |
| Damper area* | | 1.5 m ² | 3.0 m ² | 4.5 m ² |
| Running time | | 30...45 s | 80...110 s | 125...160 s |
| Supply voltage | | AC230V | | |
| Frequency | | 50-60 Hz | | |
| Power consumption | | | | |
| - Running | | 5.5 W | | |
| - At end position | | 0.6 W | | |
| Dimensioning | | 6.0VA / 0.1A @ 2 ms | | |
| Weight | | 1.2 kg | | |
| Control signal | Y1 | DC0(2)...10V | | |
| Control signal | Y2 | None | | |
| Position signal | U | DC0(2)...10V | | |
| Angle of rotation / working range | | 90° (93° mech.) | | |
| Angle of rotation / limitation | | 5°...85° in 5° < steps | | |
| Service lifetime | | 60,000 rotations | | |
| Auxiliary switches | | 3(1.5)A, AC24V | | |
| Setting range / adjustable | | 5°...85° < infinity | | |
| Noise level | | 45 dB (A) | | |
| Protection class | | II | | |
| Degree of protection | | IP 54 (cable downwards) | | |
| Cable aperture connection | | M16 x 1.5 | | |
| Mode of action | | Type 1 | | |
| Ambient conditions | | | | |
| - Operating temperature | | -20...+50°C / IEC 721-3-3 | | |
| - Storage temperature | | -30...+60°C / IEC 721-3-2 | | |
| - Humidity | | 5...95% r.F. | | |
| Service | | Maintenance-free | | |
| Standards | | Mechanics | EN 60 529 / EN 60 730-2-14 | |
| | | Electronics | EN 60 730-2-14 | |
| | | EMC Emissions | EN 50 081-1:92 / IEC 61 000-6-3:96 | |
| | | EMC Immunity | EN 50 082-2:95 / IEC 61 000-6-2:99 | |



Setting the control signal

| | | |
|-------------------|--------------|-----------------------|
| Control signal Y1 | DC0(2)...10V | Micro-switch d |
| Input resistance | Ri 100 kΩ | Micro-switch c |
| Position signal U | DC0(2)...10V | DC0...10V |
| Load resistance | > 50 kΩ | DC2...10V |

Switching the microswitch **d1** to the ON position will change the control signal to DC2...10V.

Changing the direction of rotation

Position transmitter

The DM..2.2(S) can also be controlled using the JOVENTA Positioner (PA/PF) with control signal of DC0(2)...10V. For further information concerning the PA and PF positioner please refer to data sheet 6.20.

Caution: A maximum of 5 actuators can be controlled in parallel operation.

Setting the auxiliary switches

Factory setting:
 Switch **a** at 10°
 Switch **b** at 80°

The switching position can be manually changed to any required position by turning the ratchet.

Override control

The actuator DM..2.2(S) can be forced to override control when wired in accordance with the relevant diagram on the left.

Switch position:

- 1 = Actuator runs at 10V
- 2 = Actuator runs at 0(2)V
- 3 = Automatic control

Rotation angle

The limitation or rotation angle can be set in 5° steps by moving the adapter.

The adapter can be removed simply by pressing the adapter clip on the underside of the actuator.

Limitation of rotation angle

Adapter release