## STANDAR D

## 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... 10 V and $0 . . .20 \mathrm{~mA}$ control
- Load-independent running time
- Up to 5 actuators in parallel operation possible
- Plug-in terminal block connection
- Simple direct-mount with universal adapter on $\varnothing 10 \mathrm{~mm}$ 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

| DMG1.1 | AC/DC24V |  |
| :--- | :--- | :--- |
| DMG1.1S | AC/DC24V | with 2 auxiliary switches |
| $\ldots \ldots$. K |  | with 1 m halogen-free cable |


| Actuator | DMG1.1(S) |
| :---: | :---: |
| Torque | 32 Nm |
| Damper area* | $6.0 \mathrm{~m}^{2}$ |
| Running time | 200 s |
| Supply voltage | AC/DC24V |
| Frequency | $50-60 \mathrm{~Hz}$ |
| Power consumption |  |
| - Running | 2.5 W |
| - At end position | 0.3 W |
| Dimensioning | 4.5VA / 3.6A @ 2 ms |
| Weight | 1.1 kg |
| Control signal Y1 | DC0...10V |
| Control signal Y2 | 0... 20 mA |
| Position signal U | DC0...10V |
| Angle of rotation/working range | $90^{\circ}$ (93 ${ }^{\circ}$ mech.) |
| Angle of rotation/limitation | $5^{\circ} \ldots 85^{\circ}$ in $5^{\circ}$ < steps |
| Service lifetime | 60,000 rotations |
| Auxiliary switches | 3(1.5)A, AC24V |
| Setting range / adjustable | $5^{\circ}$.. $85^{\circ}$ < infinity |
| Noise level | $45 \mathrm{~dB}(\mathrm{~A})$ |
| Protection class | II |
| Degree of protection | IP 54 (cable downwards) |
| Cable aperture connection | M16 1.5 |
| Mode of action | Type 1 |
| Ambient conditions |  |
| - Operating temperature | $-20 \ldots+50^{\circ} \mathrm{C} /$ IEC 721-3-3 |
| - Storage temperature | $-30 \ldots+60^{\circ} \mathrm{C} /$ IEC 721-3-2 |
| - Humidity | 5...95\% r.F. |
| Service | Maintenance-free |
| Standards | Mechanics EN 60529 / 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 |

## The Actuator Maker

STANDARD
MODULATING Actuators


Position transmitter


## Auxiliary switches (S)



3(1.5)A, AC24V
Actuator at $0^{\circ}$ position


For details of installation and commissioning see Manual 2.28


## Setting the control signal

Control signal Y1 DCO...10V Input resistance Ri $250 \mathrm{k} \Omega$
Control signal Y2
$0 . . .20 \mathrm{~mA}$
Input resistance $\operatorname{Ri} 388 \Omega$
Position signal U DC0...10V Load resistance $>50 \mathrm{k} \Omega$

By switching microswitch $\mathbf{d} 1$ to ON position, the control signal Y1 or Y2 will be adapted to the chosen angle of rotation.


## Changing the direction of rotation


switch c


For more information see data sheet 5.50

## Position transmitter

The DMG1.1 (S) can also be controlled using the JOVENTA Positioner (PA/PF) with control signal of DCO...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 $10^{\circ}$
Switch bat $80^{\circ}$
The switching position can be manually changed to any required position by turning the ratchet.


## Override control

The actuator DMG1.1(S)
can be forced to
override control when
wired in accordance
with the relevant
diagram on the left.
Switch position:
1 = Actuator runs at 10 V

2 = Actuator runs at $\mathrm{O}(2) \mathrm{V}$

3 = Automatic control

## Rotation angle

The limitation or rotation angle can be set in $5^{\circ}$ 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


