## econex



Pictures might not correspond with technical data

## TECHNICAL FEATURES

| Torque |  | 3-5-10-15 Nm |
| :---: | :---: | :---: |
| Damper size |  | 0.5-1-2-3 m ${ }^{2}$ |
| Shaft dimensions | 3 Nm | Ø6to 12 mm round/ $\dagger 6$ to 8 mm square |
|  | 5 Nm | $\emptyset 10 \mathrm{to} 16 \mathrm{~mm}$ round/ $\dagger 7$ to 11 mmsquare |
|  | 10 Nm | Ø13to 19 mm round/ $\ddagger 8 \mathrm{to} 12 \mathrm{mmsquare}$ |
|  | 15 Nm | Ø13to 19 mm round/ $\ddagger 8$ to 12 mmsquare |
| Minimum shaft length |  | 40 mm |
| Actuator cable |  | 1000 mm cable connection |
| Power supply |  |  |
|  |  | AC230V $\pm 10 \%-50-60 \mathrm{~Hz}$ |
| Control signal |  | 2 point(open-dosed) or modulating only ACIDC24V |
| Input signal |  | 0-10V DC |
| Output signal |  | 0-10V DC |
| Auxiliary switch rating |  | 3(1.5)A, AC 250V (SPDT) |
| Power consumption operating and end position | 3 Nm | 2.5 W (1.6 W) |
|  | 5 Nm | 4.2 W (2.5 W) |
|  | 10 Nm | 5.0 W (2.5 W) |
|  | 15 Nm | 6.5 W (2.5 W) |
| For wire sizing | 3 Nm | 5.0 VA |
|  | 5 Nm | 10 VA |
|  | 10 Nm | 10 VA |
|  | 15 Nm | 10 VA |

## Spring Return Actuator ASR

ECONEX spring return damperactuators have been developed to operate and position air dampers of different sizes that perform safety functions.
For several application as frost hygiene and smoke control in technical building installations.

| Protection class | III 道24V and III |
| :---: | :---: |
| Angle of rotation | $0^{\circ} \ldots 90^{\circ}$ (95 $5^{\circ}$ mechanical) |
| Angle of limiting (mechanical) | $45^{\circ} \ldots 90^{\circ}$ in $5^{\circ}$ steps (adjustable) |
| 3 Nm | 1.2 Kg |
| 5 Nm | 1.7 Kg |
| 10 Nm | 2.6 Kg |
| 15 Nm | 2.7 Kg |
| Life cycle | $60^{\prime} 000$ rotation |
| Sound level | M. 45 dB (A) S. 65 dB (A) |
| IP protection | IP 54 (in vertical mounting) |
| Operating temperature | $-20^{\circ} \ldots+50^{\circ} \mathrm{C} /$ IEC 721-3-3 |
| Non-operating temperature | $-30^{\circ} \ldots+80^{\circ} \mathrm{C} /$ IEC 721-3-2 |
| Ambient humidity | $5 \% . . .95 \%$ rH non condensing EN 60730-1 |
| Maintenance | Maintenance free |
| Mode of operation | Type I/ EN 60730-1 |
| EMC | CE according to 2004/108/EC |
| UL listing | UL 873 |
| Customer version | on request |

## ASR $=$ Spring return actuator



## DIMENSIONS

3 Nm


5 Nm


## CHANGING DIRECTION OF ROTATION

ASR Actuator can be mounted in 2 direction, one CW, the other CCW.


MECHANICAL LIMITING ANGLE OF ROTATION ASR
The auxiliary switches for ASR actuators are not adjustable.
The switching points are fixed at $5^{\circ}$ for switch $\mathbf{a}$ and at $85^{\circ}$ for switch $\mathbf{b}$.

Adjustment of mechanical limiter

1. Take limiting element and screw delivered with the actuator
2. Place limiting element at appropriate position *
3. Tighten screw
*Working range of $90^{\circ}$ can be reduced up to $45^{\circ}$.


## WIRING DIAGRAM

## ON-OFF version



## MODULATING vERSION



## REMARK

Parallel connection of maximum five ASR actuators is possible. The power consumption and distance between master and slave must be observed.
For more details of installation and commissioning, please observe our mounting instruction manual ASR.

## $\triangle$ SAFETY NOTES

- The ASR actuators are not allowed to be used outside the specified field of application as described at the front page of this data sheet.
- Only to be installed by skill educated persons. Any legal regulations or issued by authorities must be observed during installation.
- The ASR actuator may only opened by ECONEX manufacturer site. Device does not contain any parts that can be replaced by user.
- The electrical connection cable must not be removed from the ASR actuator.

■ This actuator includes electrical and electronic components and may not be disposed as household garbage. Please consider the local valid legislation.

- AC 24V-50/60 Hz-DC 24V: Connect via safety isolating transformer.
- AC 230V: To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least 3 mm contact gap).


## IMPORTANT REMARKS

This actuator includes electrical and electronic components and may not be disposed as household garbage. Please consider the local valid legislation. Z

AC/DC 24V: Connect via safety isolating transformer. AC 230V: To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least a 3 mm contact gap).

Consult ECONEX representatives for specific requirements and material selections for your intended application. The entire content of this technical datasheet is protected by copyright with all rights reserved ©.

The performance specifications are nominal and conform to acceptable industry standards. ECONEX shall not be liable for damages resulting from misapplication or misuse of its products.

## CUSTOMISED VERSION

ECONEX offers you actuators in customised versions, e.g. with your own brand name, with colour-coordinated applications and with your particular demand on request.

Please contact us for further information.

