



Pictures might not correspond with technical data

## Damper Actuator AG 2-5 Nm

ECONEX standard damper actuators are especially designed and produced for applications in the HVAC systems. Our wide range of ECONEX standard damper actuators has been developed to operate and position air dampers of different sizes.

### TECHNICAL FEATURES

<b>Torque</b>	2 - 5 Nm	<b>Protection class</b>	III ⚡ 24V and II ⚡ 230V
<b>Damper size</b>	0.4 - 1.0 m <sup>2</sup>	<b>Angle of rotation</b>	0°...90° (95° mechanical)
<b>Shaft dimensions</b>	∅ 6 to 16 mm round / 5 to 12 mm square	<b>Angle of limiting (mechanical)</b>	0°...90° (max 0°...30° / 60°...90°)
<b>Power supply</b>	AC/DC 24V ± 15% AC 230V ± 10% - 50-60 Hz	<b>Weight</b>	0.7 kg
<b>Control signal</b>	2 point and 3 point or modulating	<b>Life cycle</b>	60'000 rotation
<b>Feedback potentiometer</b>	10 KΩ only ON-OFF	<b>Sound level</b>	42 dB (A)
<b>Input signal</b>	0(2)-10V DC / 0(4) - 20mA	<b>IP protection</b>	IP 44 or IP 54 (in vertical mounting)
<b>Output signal</b>	0-10V DC / 0-10V DC	<b>Operating temperature</b>	-20°...+50° C / IEC 721-3-3
<b>Auxiliary switch rating</b>	3(1.5) A, AC 250V	<b>Non-operating temperature</b>	-30°...+80° C / IEC 721-3-2
<b>Power consumption operating</b>	2 W	<b>Ambient humidity</b>	5%...95% rH non condensing EN 60730-1
<b>End position</b>	1.2 W	<b>Maintenance</b>	Maintenance free
<b>For wire sizing</b>	4.0 VA	<b>Mode of operation</b>	Type I / EN 60730-1
		<b>EMC</b>	CE according to 2004 /108/EC

### FEATURES

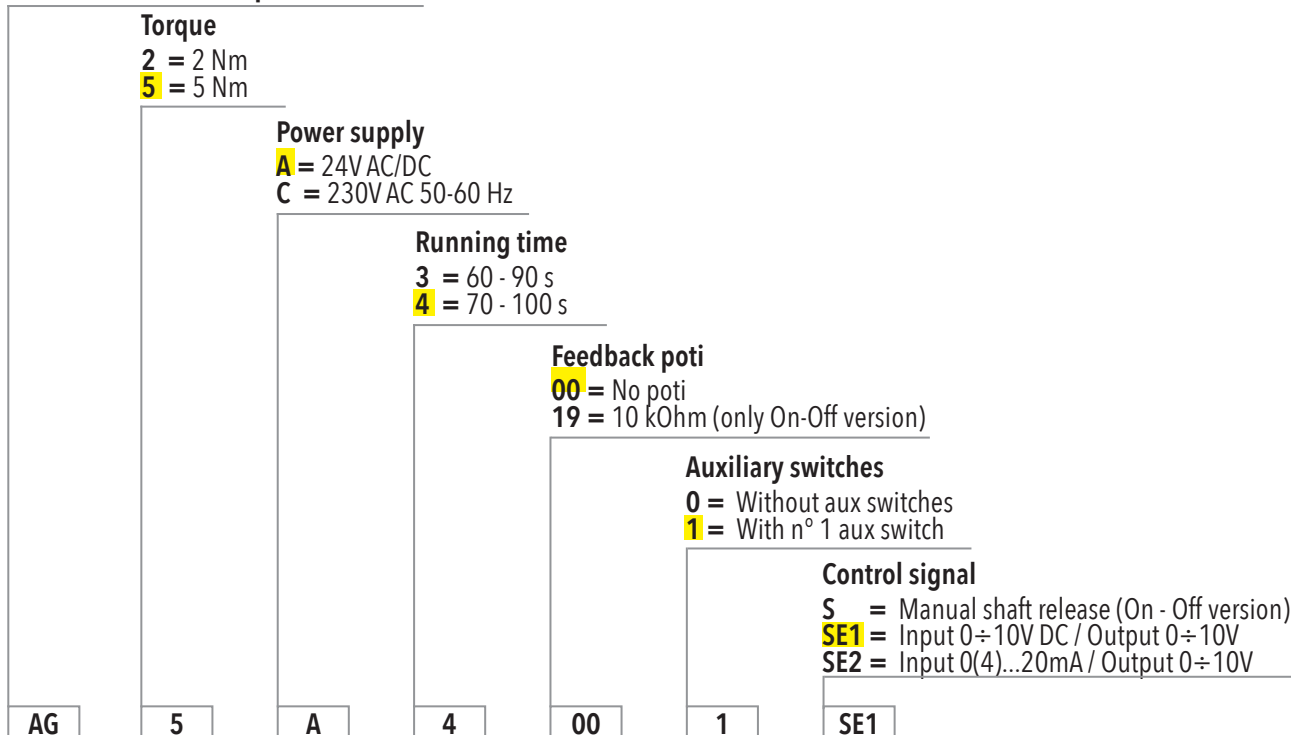
- Damper size 0.4 - 1.0 m<sup>2</sup>
- Power supply AC/DC 24V and 230V
- Control 2 - 3 point and modulating
- 1. adjustable auxiliary switch (SPDT) 2...3. Point control
- Potentiometer 10 K Ω
- Shaft dimensions  
∅ 6 to 16 mm round / 5 to 12 mm square
- Damper Actuator supplied standard with 90 cm cable
- Selectable direction of rotation
- Adjustable angle of rotation
- Customer version (on request)

# MODELS

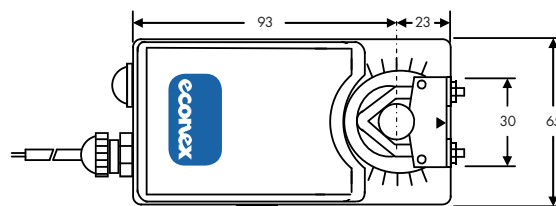
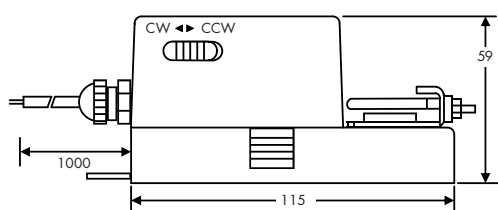
## AVAILABLE MODEL TABLE

Models	24 V	230 V
ON - OFF	2-5 Nm	2-5 Nm
MODULATING	2-5 Nm	-

### AG = Standard Damper actuator



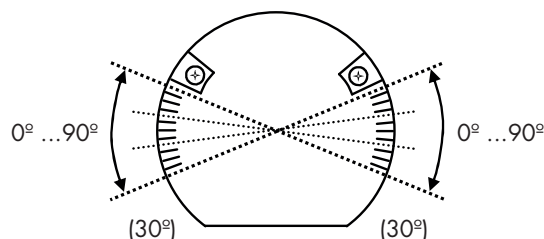
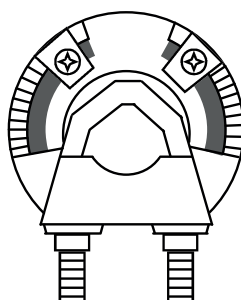
## DIMENSIONS



### LIMITATION OF ROTATION ANGLE

Adjustment of mechanical limiter

1. Loosen screw of mechanical limiter
2. Move limiter to appropriate position \*
3. Tighten screw



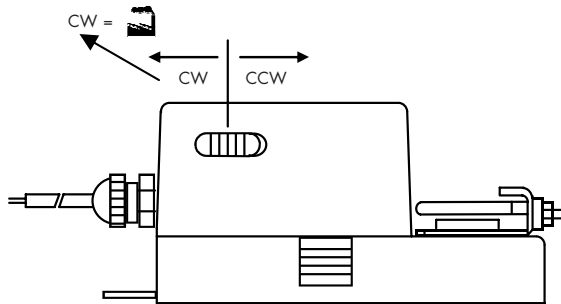
\* Working range of 90° can be reduced up to 30° from each end position.

## ON-OFF VERSION

### CHANGING DIRECTION OF ROTATION

Factory-set CW!

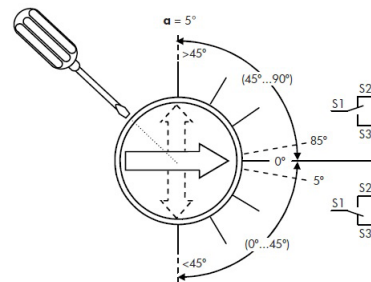
The direction of rotation can be changed by pushing the CW/CCW switch on the actuator's housing.



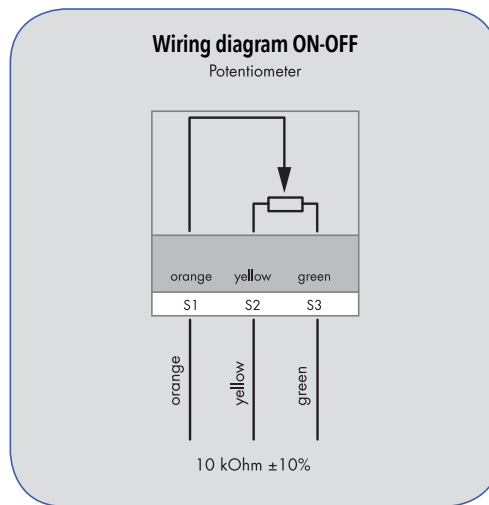
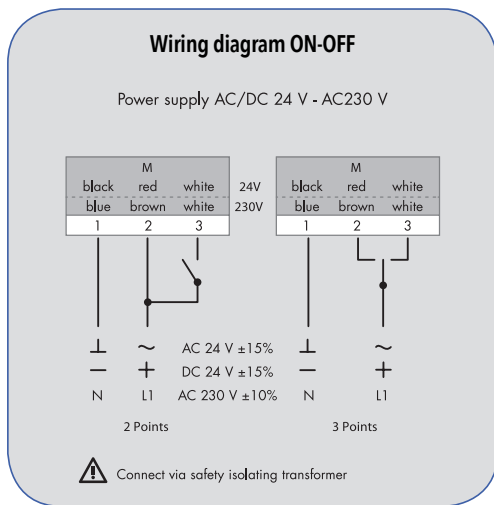
### ADJUSTMENT OF AUXILIARY SWITCH AG2-AG5 ...S1

Switch a factory-set at 5°

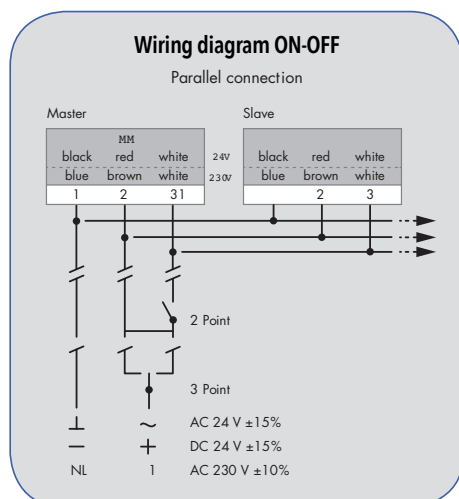
The auxiliary switch can be optimally adjusted between 0°...90°.



### WIRING DIAGRAM



### REMARK



Parallel connection of maximum five AG2-AG5 actuators is possible.

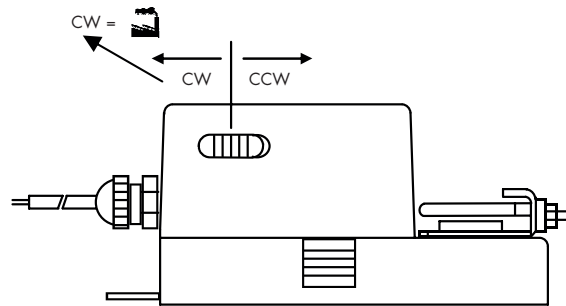
The power consumption and distance between master and slave must be observed.

## MODULATING VERSION

### CHANGING DIRECTION OF ROTATION

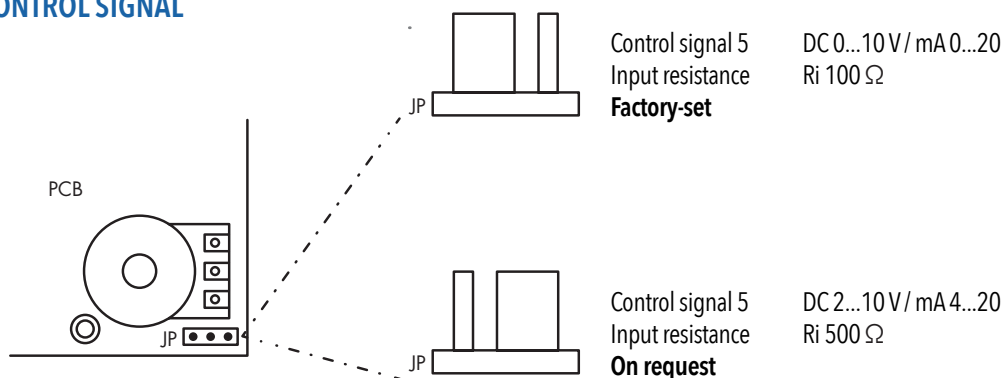
Factory-set CW!

The direction of rotation can be changed by pushing the CW/CCW switch on the actuator's housing.

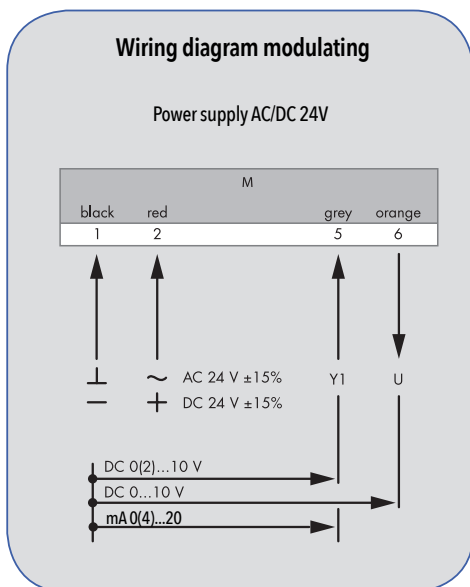


### SET OF CONTROL SIGNAL

Jumper (JP)

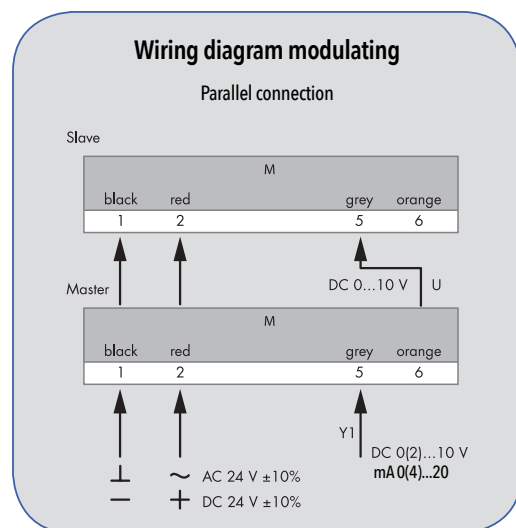


### WIRING DIAGRAM



### REMARK

When AG2 - AG5 actuators operate in parallel (max. 5 actuators), the output signal  $U = DC 0...10 V$  (terminal 6) of the master actuator must be connected to terminal 5 of the next slave actuator. The power consumption and distance between master and slave must be observed.



All the reported data are subject to be changed without notice.

from 200410