

## Rotary Damper Actuator Standard 2 Nm / 5 Nm Modulating Control



- NACM...02/05 series
- NENUTEC standard damper actuators are especially designed and produced for applications in the HVAC systems.
- Our wide range of NENUTEC standard damper actuators has been developed to operate and position air dampers of different sizes.

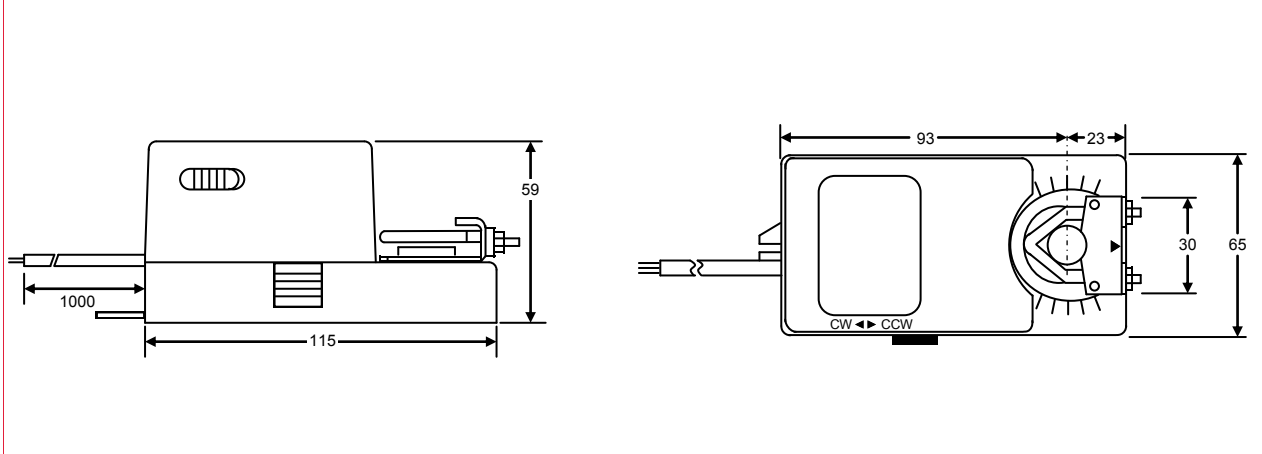
### Product Features

- Torque 2 Nm / 5 Nm
- Damper size 0.4 m<sup>2</sup> / 1.0 m<sup>2</sup>
- Power Supply AC/DC 24 V
- Control Modulating DC 0(2)...10 V
- Shaft dimensions  
Ø 6 to 16 mm round / □ 5 to 12 mm square
- Minimum shaft length 40 mm
- Selectable direction of rotation
- Adjustable angle of rotation
- Actuator with 1000 mm cable connection
- Customer version on request


### Model Selection Table

Torque	Running Time	Power Supply	Auxiliary Switch	Model / Type
2 Nm	60...90 sec	AC/DC 24 V ± 10%	No	NACM 1.2-02
5 Nm	70...100 sec	AC/DC 24 V ± 10%	No	NACM 1.2-05

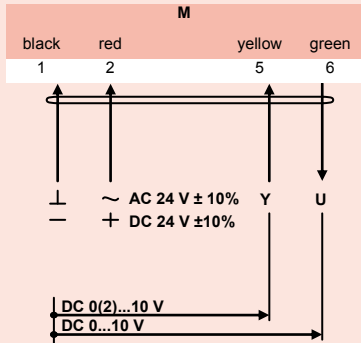
## Actuator Dimensions (mm)



## Technical Specifications

	<b>NACM 1.2...</b>
Torque	2 Nm / 5 Nm
Damper Size	0.4 m <sup>2</sup> / 1.0 m <sup>2</sup>
Shaft dimensions	Ø 6 to 16 mm round / £ 5 to 12 mm square
Power Supply	AC/DC 24 V ± 10%
Frequency	50 - 60 Hz
Control Signal (Input)	DC 0(2)...10 V
Position Signal (Output)	DC 0...10 V
Power Consumption	
- Operating	2.0 W
- End Position	2.0 W
For Wire Sizing	4.0 VA
Protection Class	III 
Angle of Rotation	0°...90° (95° mechanical)
Angle of Limiting	0°...90° (max. 0°...30° / 60°...90°)
Weight	< 0.7 Kg
Life Cycle	60'000 rotation
Sound Level	40 dB (A)
IP Protection	IP 54 (dust protected & protected against splash water)
Operating Temperature	-20°...+50° C / IEC 721-3-3
Non-Operating Temperature	-30°...+60° 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 89 / 336 / EEC

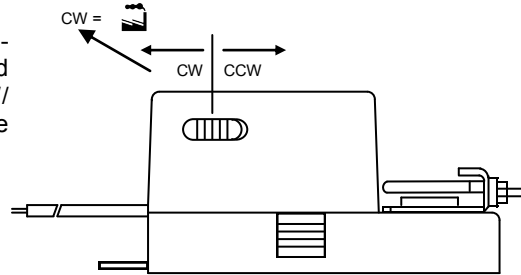
**Wiring Diagram NACM 1.2...  
 Power Supply AC/DC 24 V**



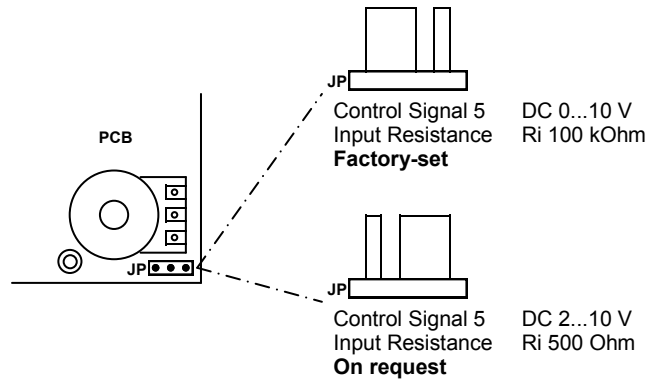
**Changing Direction of Rotation NACM 1.2...**

Factory-set CW!

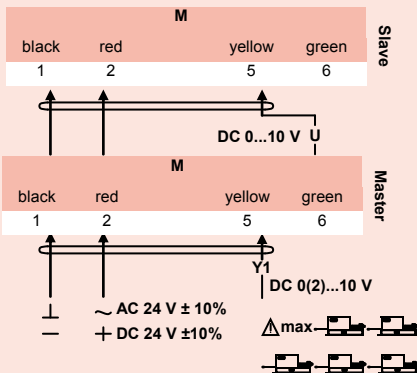
The direction of rotation can be changed by pushing the CW/CCW switch on the actuator's housing.



**Adjustment of Control Signal NACM 1.2...**



**Wiring Diagram NACM 1.2...  
 Parallel Connection**

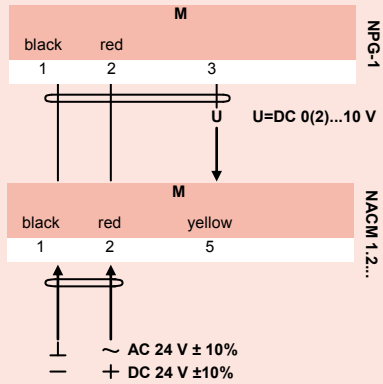


**Remark**

When NACM... actuators operate in parallel, 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.

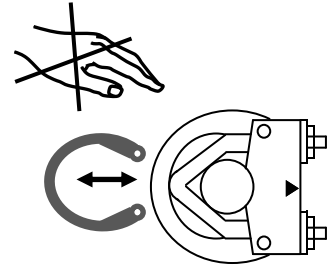
The power consumption must be observed.

**Wiring Diagram NACM 1.2...  
 NPG-1 Position Transmitter AC/DC 24 V**



**Releasing the Adapter NACA 1/2...**

Releasing the adapter is not required and not necessary.

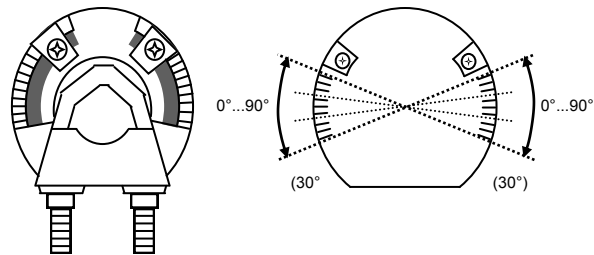


**Limiting Angle of Rotation NACA 1/2...(S1)**

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.



**OEM Customised Version on Request**

TELIMA/NENUTEC offers you actuators in customised versions, e.g. with your own brand name, with colour-coordinated applications and with your particular demand. Please contact us for further information.

**Important Remark**

Consult NENUTEC representatives for specific requirements and material selections for your intended application.



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



AC / DC 24 V: Connect via safety isolating transformer.  
 AC 230 V: 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).

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