

NACM 10Nm Modulating Control Actuator



ASLI damper actuators are especially designed and produced for applications in the HVAC systems with latest Switzerland technology.

It has been developed to operate and position air dampers of different sizes. Angular positioning of modulating actuators can be controlled by the NPG-1 positioner.

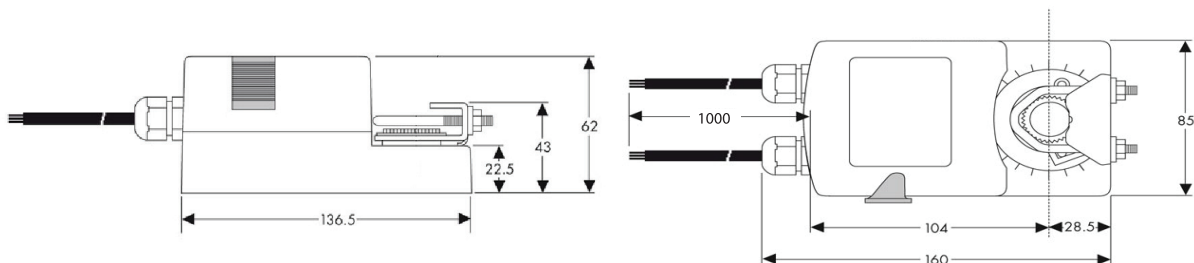
Features

- Torque 10 Nm
- Damper neck size 1.5 m²
- Power supply AC/DC 24 V
- Control modulating DC 0(2)...10 V and 0 (4)...20 mA
- 1 adjustable auxiliary switch (SPDT) when requested
- Shaft dimensions
Ø 10 to 20 mm round / 5 to 14 mm square
- Minimum shaft length 45 mm
- Selectable direction of rotation
- Adjustable angle of rotation
- Actuator with 1m cable connection

NACM 10Nm Model Selection Table


Torque	Running Time	Power Supply	Auxiliary Switches	Model/Type
10 Nm	100...150 sec	AC/DC 24 V ± 10%	No	NACM 1.1-10
10 Nm	100...150 sec	AC/DC 24 V ± 10%	1 x SPDT	NACM 1.1-10S1

NACM 10Nm Dimensions *Unit : mm*



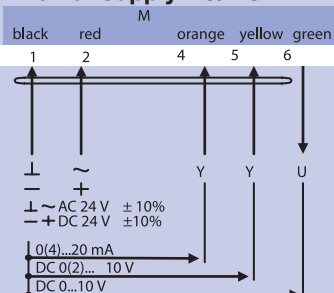
NACM 10Nm Modulating Control Actuator

NACM 10Nm Technical Specification

NACM 1.1...(S1)	
Torque	10 Nm
Damper size	1.5 m ²
Shaft dimensions	Ø 10 to 20 mm round / 5 to 14 mm square
Power supply	AC/DC 24 V ± 10%
Frequency	50...60 Hz
Control Signal	DC 0(2)...10 V or 0(4)...20 mA
Position Signal (Output)	DC 0...10 V
POWER CONSUMPTION	
- Operating	6.0 W
- At the end stops	2.0 W
For wire sizing	6.5 VA
Auxiliary Switches Rating	3 (1.5) A, AC 250 V
Protection Class	III 
Angle of rotation	0°...90° (95° mechanical)
Angle limiting	0°...90° in 10° steps
Weight	< 1.0 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

NACM 10Nm Wiring Diagram

**Wiring Diagram NACM 1.1...(S1)
Power Supply AC/DC 24 V**



black red orange yellow green
1 2 4 5 6

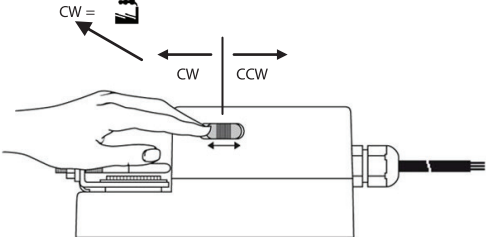
⊥ ~ AC 24 V ± 10%
- + DC 24 V ± 10%

0(4)...20 mA
DC 0(2)...10 V
DC 0...10 V

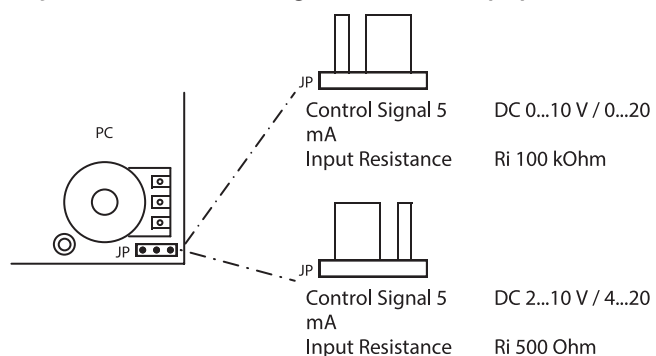
Changing Direction of Rotation NACM 1.1...(S1)

Factory-set CW!

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



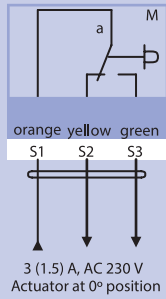
Adjustment of Control Signal NACM 1.1...(S1)



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NACM 10Nm Wiring Diagram

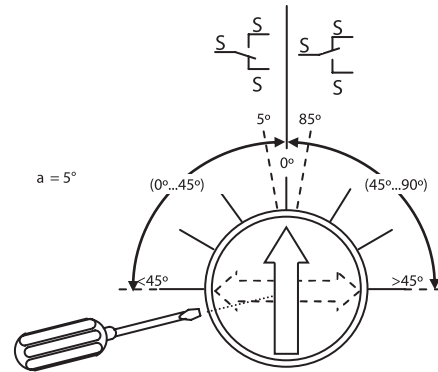
Wiring Diagram NACM 1.1...(S1) Auxiliary Switch



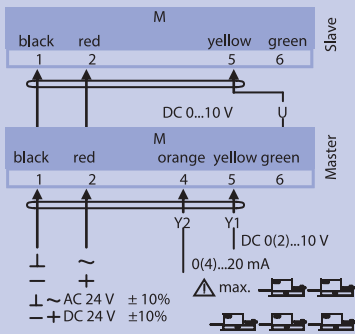
Adjustment of Auxiliary Switch NACM 1.1...(S1)

Switch **a** factory-set at 5°

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



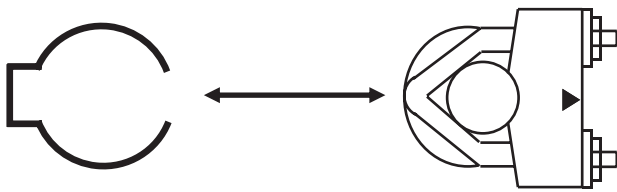
Wiring Diagram NACM 1.1...(S1) Parallel Connection



Remark

When NACM... (S1) 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.

Releasing the Adapter NACM 1.1...(S1)



Limiting Angle of Rotation NACM 1.1...(S1)

