

NACA 10Nm 2-Point & 3-Point On-Off 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.

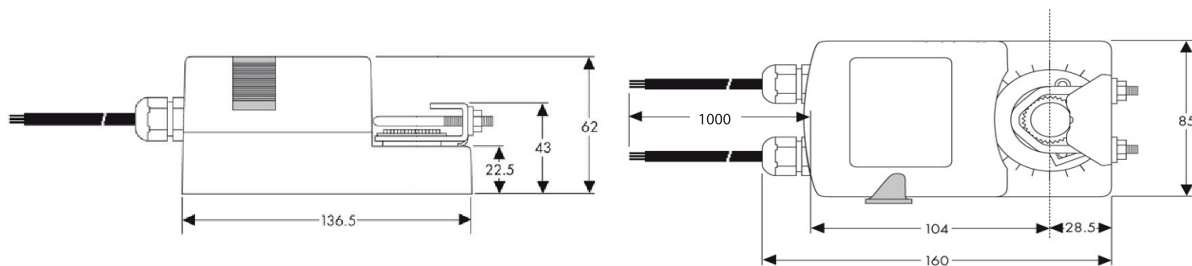
Features

- Torque 10 Nm
- Damper neck size 1.5m²
- Power supply AC/DC 24 V and AC 230 V
- Control 2 Point and 3 Point
- 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

NACA 10Nm Model Selection Table

Torque	Running Time	Power Supply	Auxiliary Switches	Model/Type
10 Nm	100...120 sec	AC/DC 24 V ± 10%	No	NACA 1-10
10 Nm	100...120 sec	AC/DC 24 V ± 10%	1 x SPDT	NACA 1-10 S1
10 Nm	100...120 sec	AC 230 V ± 10%	No	NACA 2-10
10 Nm	100...120 sec	AC 230 V ± 10%	1 x SPDT	NACA 2-10 S1

NACA 10Nm Dimensions *Unit : mm*



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NACA 10Nm Technical Specification

	NACA 1-10 (S1)	NACA 2-10 (S1)
Torque	10 Nm	
Damper size	1.5m ²	
Shaft dimensions	Ø 10 to 20 mm round / 5 to 14 mm square	
Power supply	AC/DC 24 V ± 10%	AC 230 V ± 10%
Frequency	50...60 Hz	
Control Signal	2 point and 3 point	
POWER CONSUMPTION		
- Operating	6.0 W	
- At the end stops	2.0 W	
For wire sizing	6.5 VA	
Auxiliary Switches Rating (Amp and Voltage)	3 (1.5) A, AC 250 V	
Protection Class	III ⚡	II ☐
Angle of rotation	0°...90° (95° mechanical)	
Angle limiting	0°...90° in 10° steps	
Weight	< 1.0 Kg	< 1.1 Kg
Life cycle	60,000 rotation	
Sound level	45 dB (A)	
IP protection	IP54 (dust protected & protected against splash water)	
Operating Temperature	20°...+50° as per 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	

NACA 10Nm Wiring Diagram

Wiring Diagram NACA 1/2...(S1) Power Supply AC/DC 24 V - AC 230 V

M			24V	M		
black	red	white	230V	black	red	white
blue	brown	white		blue	brown	white
1	2	3		1	2	3
⊥	~	AC 24 V ±10%		⊥	~	
-	+	DC 24 V ±10%		-	+	
N	L1	AC 230 V ±10%		N	L1	
2 Point				3 Point		

⚠ Connect via safety isolating transformer

Changing Direction of Rotation NACA 1/2...(S1)

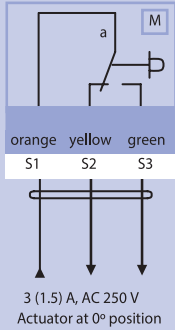
Factory-set
CW!

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

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NACA 10 Nm Wiring Diagram

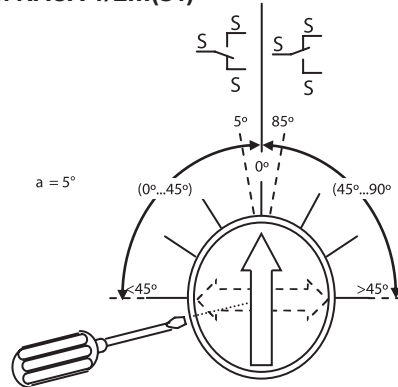
Wiring Diagram NACA 1/2...(S1) Auxiliary Switch



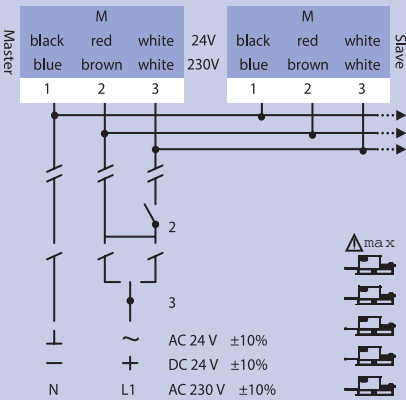
Adjustment of Auxiliary Switch NACA 1/2...(S1)

Switch **a** factory-set at 5°

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



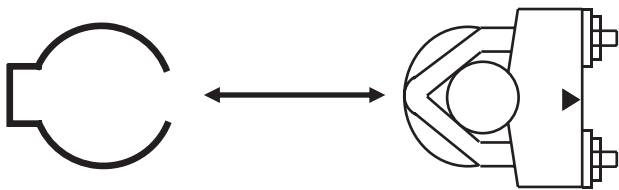
Wiring Diagram NACA 1/2...(S1) Parallel Connection



Remark

Parallel connection of several NACA... (S1) actuators is possible. The power consumption must be observed.

Releasing the Adapter NACA 1/2...(S1)



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

