

Rotary Damper Actuator 2 Points and 3 Points Control with feedback potentiometer



- SONDER is proud to offer the 08 and 16 Nm damper actuator of the NACA...08/16 P1, 2, 3 Series designed specifically applications into the HVAC market.
- SONDER high quality damper actuators have been designed for use with air damper, butterfly valve, characterized ball valve and globe valve with the use of special adapter.

Product Features

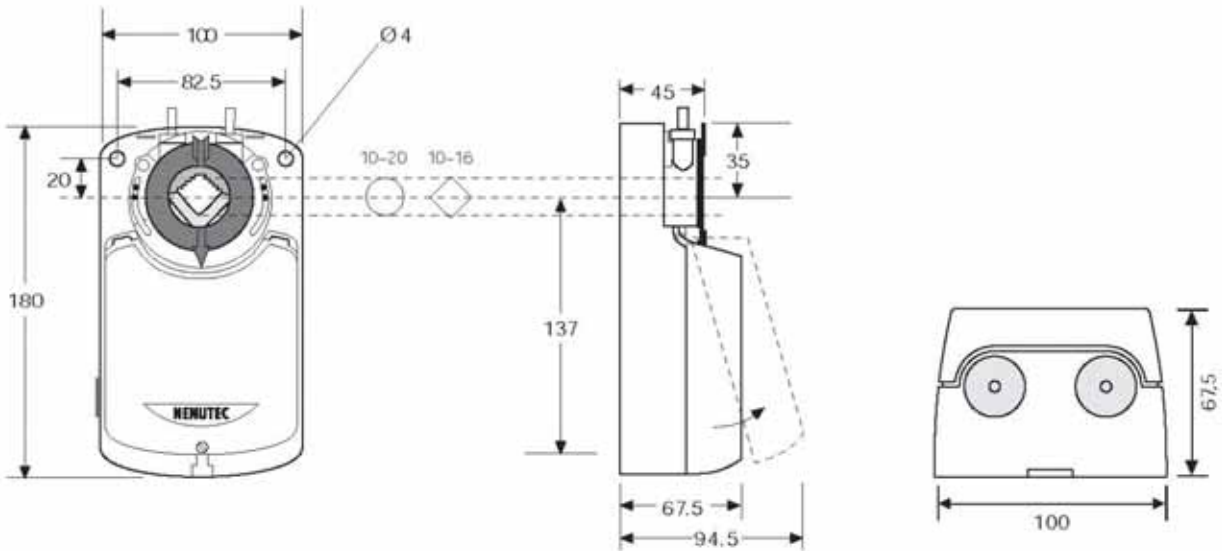
- 2 points and 3 points control
- Position Signal (feedback) 1000 Ohm, 10000 Ohm, 135 Ohm
- Universal Spindle Clamp for easy direct mounting
- Shaft dimension \varnothing 10...20 mm / 10...16 mm • square
- Anti-rotation bracket provided for stability
- Manual over ride by push button when required
- Adjustable angle of rotation
- Selectable direction of rotation
- Parallel connection up to 5 actuators
- Power saving at end stops
- Actuators available with 1 m cable on request
- Customised version available, on request

Model Selection Table

Torque	Running Time	Power Supply	Feedback Signal	Model/Type
8 Nm	35...45 sec	AC/DC 24 V	1000 Ohm	NACA 1-08 P1
		AC 230 V \pm 10%	1000 Ohm	NACA 2-08 P1
8 Nm	35...45 sec	AC/DC 24 V	10000 Ohm	NACA 1-08 P2
		AC 230 V \pm 10%	10000 Ohm	NACA 2-08 P2
8 Nm	35...45 sec	AC/DC 24 V	135 Ohm	NACA 1-08 P3
		AC 230 V \pm 10%	135 Ohm	NACA 2-08 P3
16 Nm	80...110 sec	AC/DC 24 V	1000 Ohm	NACA 1-16 P1
		AC 230 V \pm 10%	1000 Ohm	NACA 2-16 P1
16 Nm	80...110 sec	AC/DC 24 V	10000 Ohm	NACA 1-16 P2
		AC 230 V \pm 10%	10000 Ohm	NACA 2-16 P2
16 Nm	80...110 sec	AC/DC 24 V	135 Ohm	NACA 1-16 P3
		AC 230 V \pm 10%	135 Ohm	NACA 2-16 P3

The performance specifications above are nominal and subject to tolerances and application variables of generally acceptable industry standards. SONDER shall not be liable for damages resulting from misapplication or misuse of its products.

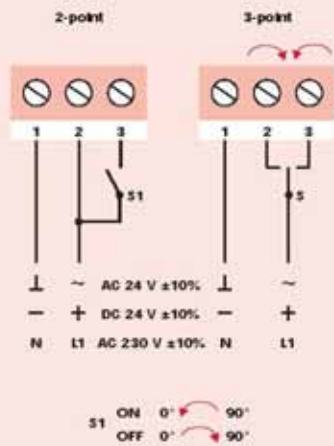
Actuator Dimensions (mm)



Technical Specification

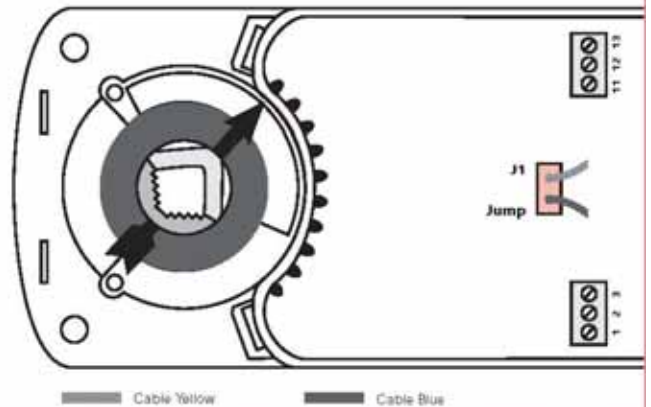
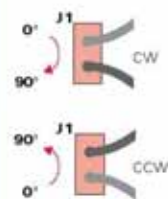
	NACA1...08/16 P1, 2, 3	NACA2...08/16 P1, 2, 3
Torque	8 Nm /16 Nm	8 Nm /16 Nm
Damper Size	1.5 m ² /3.0 m ²	1.5 m ² /3.0 m ²
Power Supply	AC/DC 24 V	AC 230 V ±10%
Frequency	50 -60 Hz	50 -60 Hz
Power Consumption		
– Operating	3.9 W	4.8 W
– At the end stops	0.4 W	1.2 W
For wire sizing	6.5 VA	6.5 VA
Auxiliary switch rating	3(1.5) A / AC 230 V	3(1.5) A / AC 230 V
Protection class	II	II
Control Signals	2 point and 3 point	2 point and 3 point
Position Signal (Potentiometer)	1000 Ohm, 10000 Ohm, 135 Ohm	1000 Ohm, 10000 Ohm, 135 Ohm
Tolerance	0.5 W ±10%	0.5 W ±10%
Angle of Rotation	90° (93° mechanical)	90° (93° mechanical)
Angle Limiting	5°...85° in 5° step	5°...85° in 5° step
Weight	1.2 Kg	1.2 Kg
Life Cycle	60,000 rotation	60,000 rotation
Sound Level	Below 45 dB	Below 45 dB
IP Protection	IP54	IP54
Ambient Temperature	–20°...+50°C / IEC 721-3-3	–20°...+50°C / IEC 721-3-3
Inventory Temperature	–30°...+60°C / IEC 721-3-2	–30°...+60°C / IEC 721-3-2
Ambient Humidity	5...95% rH non condensing	5...95% rH non condensing
Maintenance	maintenance free	maintenance free
Impact	Typ I / EN 60730-1	Typ I / EN 60730-1
Standardize	89/336/CE	89/336/CE

Wiring diagram

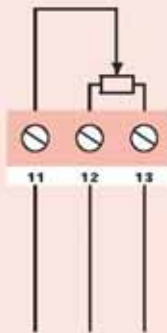


Changing direction of rotation NACA...P1, P2, P3

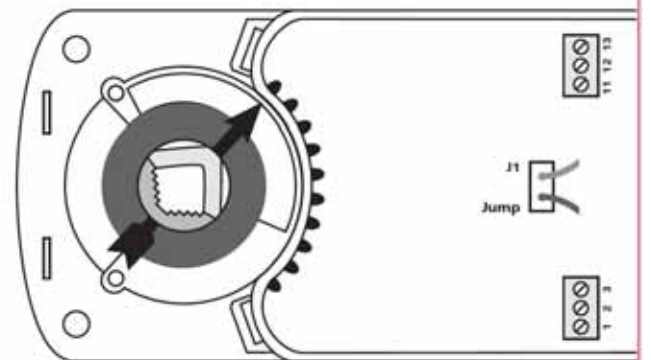
The direction of rotation can be changed by reversing Jumper J1
Factory setting



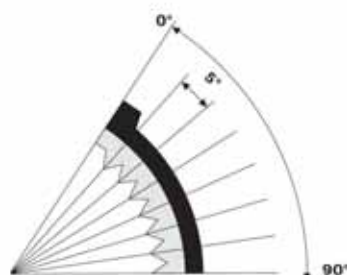
Potentiometer (P)



Feedback position signal NACA...P1, P2, P3



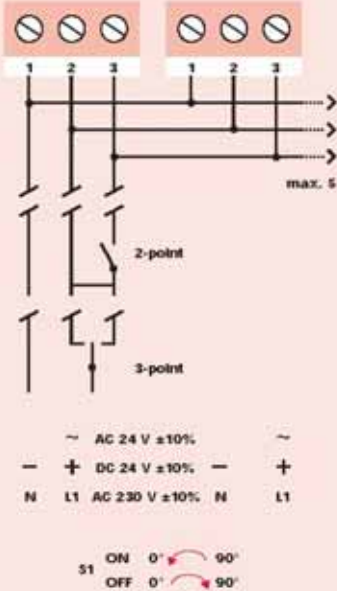
Angle-of-rotation limiting



Releasing the adapter



Parallel connection NACA...P1, P2, P3



Parallel connection

Parallel connection 2 points and 3 points control can be applicable up to 5 actuators.

Important Remark

The SONDER NACA...P1, P2, P3 actuator series can be equipped with a variety of SONDER products, Characterized Ball Valves the NVCB... series, the NMBV... Butterfly Valves series and Globe Valves. Consult SONDER representatives or factory for the specific requirements and material selection for your intended application.

Nos puede encontrar en:

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