

WITH SPRING RETURN SAFETY FUNCTION 10 Nm | MODULATED CONTROL





The appearance of the product may differ from the illustration. Technical specifications are subject to change



NESM24.2-10(S)

NENUTEC spring return damper actuators have been developed to operate and position air dampers of different sizes that perform safety functions. For several application as frost hygiene and smoke control in technical building installations.

Da	amper size 2 m ²
Po	ower supply 24 V _{AC/DC}
Cc	ontrol 010 V _{DC}
2 a	auxiliary switches (SPDT)
Sh	naft dimensions Ø 13 to 19 mm round / $ar{\square}$ 8 to 12 mm square
Mi	nimum shaft length 40 mm.
Mi	nimum shaft length 24 mm.
Ad	ljustable angle of rotation (mechanical end stop).
Ac	ctuator with 1000 mm connection cable.
Cu	ustomised versions and functions (on request).

MODEL SELECTION TABLE						
Torque	Running time (motor)	e (spring return)	Power supply	Auxiliary switches	Model/type	
10 Nm	120 s	15 s	24 V _{AC/DC} ±15%	_	NESM24.2-10	
10 Nm	120 s	15 s	$24 \ V_{\text{AC/DC}} \pm 15\%$	2 x SPDT	NESM24.2-10S	



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ACTUATOR DIMENSIONS [mm]





	NESM24.2-10(S)	
Torque	10 Nm	
Damper size	2 m ²	
Shaft dimensions	Ø 13 to 19 mm round / 🗇 8 to 12 mm square	
Power supply	24 V _{AC} / 24 V _{DC} ± 15%	
Frequency	50 -60 Hz	
Control signal Y (input)	010 V _{DC}	
Feedback position U (output)	010 V _{DC}	
Power consumption		
– Operating	2.4 W	
– End position	0.5 W	
Rated power	10 VA	
Auxiliary switch rating	3 A 230 V _{AC}	
	yes (review performance data)	
Protection class	ш 🗇	
Angle of rotation	0° 90° (max. 95°)	
Limiting angle of rotation	45° 90° in 5° steps	
Weight	1 kg	
Life cycle	Min. 60,000 emergency settings	
Sound pressure level	Motor 45 dB (A) / spring return 65 dB (A)	
Protection degree	IP 54 (dust protected & protected against splash water)	
Working temperature range	-20°+50°C / IEC 721-3-3	
Storage temperature	-30°+80°C / IEC 721-3-2	
Ambient humidity	595% rH (non condensing)	
Maintenance	Maintenance free	
Principle of operation	Type 1 (acc. to EN 60730-1)	
Electromagnetic compatibility	CE according to 2004/108/EC	
Low voltage directive	CE in accordance with 2006/95/EC	



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Wiring diagram NESM24.2-10(S) Parallel connection



Note

Parallel connection of maximum five NESM-10(S) actuators is possible. The power consumption and distance between master and slave must be observed.

For more details of installation and commissioning, please observe our mounting instruction manual M-NESM-10(S).



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Mechanical limiting angle of rotation NESM...-10 series

- Adjustment of mechanical limiter.
- 1. Take limiting element and screw delivered with the actuator
- 2. Place limiting element at appropriate position.*
- 3. Tighten the screw.

* Working range of 90° can be reduced up to 45°.



SAFETY NOTES

The NE... actuators are not allowed to be used outside the specified field of application as described at the front page of this data sheet.

Installation works may be performed only by trained and qualified personnel. Local regulations, codes and standards must be observed during installation.

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- The NE... actuator may only opened by NENUTEC manufacturer site. Device does not contain any parts that can be replaced by user.
- The electrical connection cable must not be removed from the NE... actuator.
- This actuator includes electrical and electronic components and may not be disposed as household waste. Please consider the local valid legislation.
- 24 V_{AC} 50/60 Hz, 24 V_{DC}: Connect via safety isolating transformer.
- 230 V_{AC}: 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.)

MIMPORTANT REMARKS

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

24 $V_{AC/DC}$: Connect via safety isolating transformer. 230 V_{AC} : 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.)

Consult NENUTEC representatives for specific requirements and material selections for your intended application. The entire content of this technical datasheet is protected by copyright. All rights are reserved ©.

The performance specifications are nominal and conform to acceptable industry standards.

NENUTEC shall not be liable for damages resulting from misapplication or misuse of its products.

CUSTOMISED VERSION

NENUTEC offers you actuators in customised versions, e.g. with your own brand name, with colour-coordinated applications and with your particular demand on request.

For further information please contact us or our local representative.

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