



Pictures might not correspond with technical data

Spring Return Actuator ASR

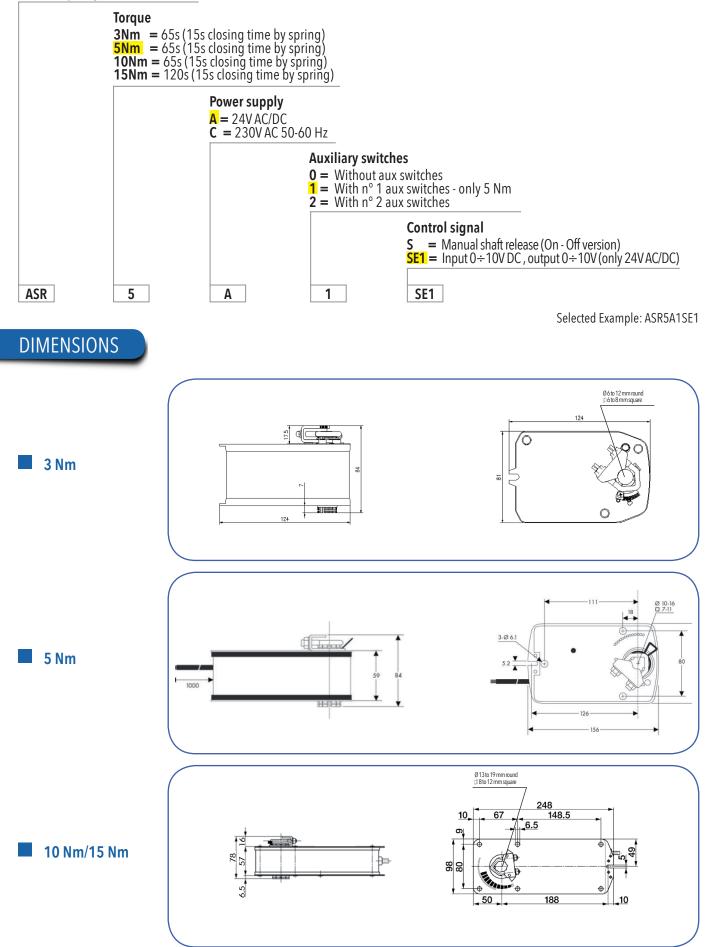
ECONEX spring return damper actuators have been developed to operate and position air dampers of different sizes that perform safety functions.

For several application as frost hygiene and smoke control in technical building installations.

TECHNICAL FEATURES

Torque		3 - 5 - 10 - 15 Nm	Protection class	III 🐵 24V and II 🔲 230V
Damper size		0.5 - 1 - 2 - 3 m ²	Angle of rotation	0°90° (95° mechanical)
Shaft dimensions	3 Nm	Ø 6 to 12 mm round / \square 6 to 8 mm square	Angle of limiting (mechanic	al) 45°90° in 5° steps (adjustable)
	5 Nm	Ø 10 to 16 mm round / ${\scriptstyle \square}$ 7 to 11 mm square	3 Nm	1.2 Kg
	10 Nm	Ø 13 to 19 mm round / ${\scriptstyle \square}$ 8 to 12 mm square	5 Nm	1.7 Kg
	15 Nm	Ø 13 to 19 mm round / $\bar{\boxplus}$ 8 to 12 mm square	Weight 10 Nr	n 2.6 Kg
Minimum shaft length		40 mm	15 Nr	n 2.7 Kg
Actuator cable		1000 mm cable connection	Life cycle	60'000 rotation
Power supply		AC/DC 24V ± 15% - 50-60 Hz	Sound level	M. 45 dB (A) S. 65 dB (A)
		AC 230V \pm 10% - 50-60 Hz	IP protection	IP 54 (in vertical mounting)
Control signal		2 point (open-dosed) or modulating only AC/DC 24 V	Operating temperature	-20°+50° C / IEC 721-3-3
Input signal		0-10V DC	Non-operating temperature	-30°+80° C / IEC 721-3-2
Output signal		0-10V DC	Ambient humidity	5%95% rH non condensing
Auxiliary switch rating		3(1.5) A, AC 250V (SPDT)	Amplent numberly	EN 60730-1
Power consumption operating and end position	3 Nm	2.5 W (1.6 W)	Maintenance	Maintenance free
	5 Nm	4.2 W (2.5 W)	Mode of operation	Type I / EN 60730-1
	10 Nm	5.0 W (2.5 W)	EMC	CE according to 2004 /108/EC
	15 Nm	6.5 W (2.5 W)	ULlisting	UL873
For wire sizing	3 Nm	5.0 VA	Customer version	on request
	5 Nm	10 VA		
	10 Nm	10 VA		
	15 Nm	10 VA		

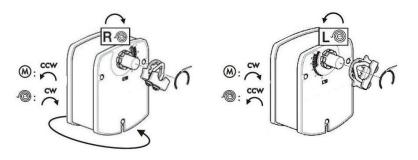
ASR = Spring return actuator



ROTATION ADJUSTMENT & MECHANICAL LIMITING ANGLE

CHANGING DIRECTION OF ROTATION

ASR Actuator can be mounted in 2 direction, one CW, the other CCW.



AUXILIARY SWITCHES ASR

The auxiliary switches for ASR actuators are not adjustable. The switching points are fixed at 5° for switch **a** and at 85° for switch **b**.

MECHANICAL LIMITING ANGLE OF ROTATION ASR

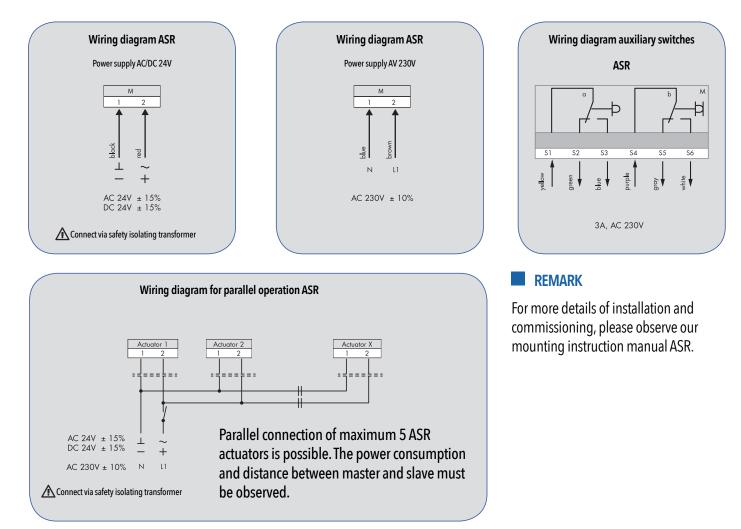
Adjustment of mechanical limiter

- 1. Take limiting element and screw delivered with the actuator
- 2. Place limiting element at appropriate position *
- 3. Tighten screw
- * Working range of 90° can be reduced up to 45°.

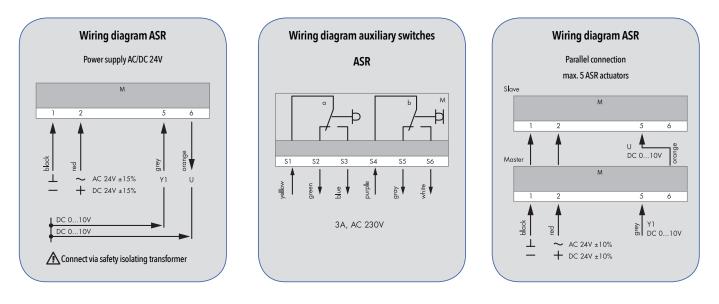


WIRING DIAGRAM

ON-OFF version



MODULATING VERSION



REMARK

Parallel connection of maximum five ASR 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 ASR.

\Lambda SAFETY NOTES

- The ASR actuators are not allowed to be used outside the specified field of application as described at the front page of this data sheet.
- Only to be installed by skill educated persons. Any legal regulations or issued by authorities must be observed during installation.
- The ASR actuator may only opened by ECONEX manufacturer site. Device does not contain any parts that can be replaced by user.
- The electrical connection cable must not be removed from the ASR actuator.
- This actuator includes electrical and electronic components and may not be disposed as household garbage. Please consider the local valid legislation.
- AC 24V 50/60 Hz DC 24V: Connect via safety isolating transformer.
- AC 230V: To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least 3 mm contact gap).

IMPORTANT REMARKS

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

The performance specifications are nominal and conform to acceptable industry standards. ECONEX shall not be liable for damages resulting from misapplication or misuse of its products.

CUSTOMISED VERSION

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

Please contact us for further information.

All the reported data are subject to be changed without notice.

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