

Technical data sheet

227-024-10-S1

Rotary drive without spring return

Actuator for adjusting air dampers of 90° angle of rotation to be used in HVAC installations

• Running time Motor 150 s / 90° • Torque Motor 15 Nm Nominal Voltage 24 VAC/DC 2/3 Point Control 1x freely adjustable

 Connection Auxiliary switch S1

• Damper size up to approx. 2 m²

Damper coupling

◊ 8-15 mm / Ø 8-20 mm



Electrical data	Newsterland	041/40/D0
	Nominal voltage	24 VAC/DC
	Nominal voltage range	1929 VAC/DC
	Power consumption motor (motion)	2,0 W
	Power consumption standby (end position)	1,0 W
	Wire sizing	3,5 VA
	Control	2/3 Point
	Position feedback	-
	Auxiliary switch	1 x SPDT(Ag)
	Contact load	5 (2,5) A, 250 VAC
	Switching point	095°
	Connection Motor	Cable 1000 mm, 3 x 0,75 mm ² (halogen free)
	Connection Auxiliary switch	Cable 1000 mm, 3 x 0,75 mm² (halogen free)
	Connection Position feedback	-
	Connection GUAC	-
unctional data		
	Torque Motor	> 10 Nm
	Synchronised speed	±5%
	Direction of rotation	selected by switch
	Manual override	Gearing latch disengaged with pushbutton, self-resetting
	Angle of rotation	0°max. 95° can be limited with adjustable mechanical end stop min. 20°
	Running time Motor	150 s / 90°
	Sound power level Motor	< 35 dB(A)
	Damper coupling	Clamp ♦ 8-15 mm / Ø 8-20 mm



Technical data

Functional data		
	Position indication	mechanical with pointer
	Service life	> 60'000 cycles (0° - 95° - 0°)
Safety		
	Protection class	III (safety extra-low voltage)
	Degree of protection	IP54 (Cable downwards)
	EMC	CE (2004/108/EG)
	LVD	CE (2006/95/EG)
	RoHS	CE (2011/65/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	0,8 kV (EN 60730-1)
	Control pollution degree	3 (EN 60730-1)
	Ambient temperature normal operation	-30°C+50°C
	Storage temperature	-30°C+80°C
	Ambient humidity	595% r.H., non condensing (EN 60730-1)
	Maintenance	maintenance free
Dimensions / Weight		
	Dimensions	115 x 65 x 61 mm
	Weight	530 g

Operating mode / Properties

Operating mode

2 point:

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3 point

Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is alsoBU+BK (1+3) connected to the power supply the actuator is moving in direction 0.

The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

Direct mounting

Simple direct mounting on the damper spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

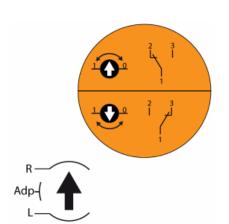
Manual override is possible with the self-resetting pushbutton (the gearing latch remains disngaged as long as the pushbutton is pressed).

Rotary direction switch

R / CW = clockwise L / CCW = counter clockwise

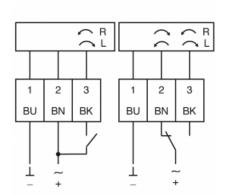
Adaption drive

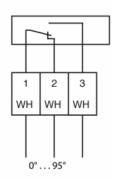
- -Adaption on angle of rotation <90°
- -Actuator power-off
- -Setting the mechanical end stops
- -Actuater power-on
- -Adaption to enable
- -Actuator adaption on angular range
- -Adaption to disable
- -"Y" refers to measured angular range





Connection / Safety remarks





Safety remarks

- -Connect via safety isolation transformer -The actuator is not allowed to be used
- outside the specified field of application, especially in airplanes.
- -It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- -The device may only be opened at the manufacturer's site.
- -When calculating the required torque, the specifications supplied by the damper manufacturers (cross- section, design, installation site), and the air flow conditions must be observed.
- -The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.



Technical drawing

