

Technical data sheet

227S-230-10E-S1 Rotary actuator

Description

Rotary actuator for adjusting dampers in HVAC installations

Running time
Torque
Nominal voltage
Control
20 s / 90°
10 Nm
230 VAC/DC
2-/3-point

Auxiliary switch
Damper size
1x freely adjustable
up to approx. 2 m²

• Damper coupling clamp

♦ 8-15 mm / Ø 8-20 mm



Technical data

Electrical data	Nominal voltage	230 VAC/DC, 50/60 Hz
	Nominal voltage range	85265 VAC/DC
	Power consumption motor (motion)	6,0 W
	Power consumption standby (end position)	1,5 W
	Wire sizing	11,0 VA
	Control	2-/3-point
	Feedback signal	-
	Auxiliary switch	1x SPDT (Ag)
	Contact load	5 (2,5) A, 250 VAC
	Switching point	095°
	Connection motor	cable 1000 mm, 3 x 0,75 mm² (halogen free)
	Connection feedback potentiometer	-
	Connection auxiliary switch	cable 1000 mm, 3 x 0,75 mm² (halogen free)
	Connection GUAC	-
Functional data	Torque	10 Nm



Technical data

Functional data	Damper size	up to approx. 2 m²
	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 stops after changing the angle of rotation, a adaptation drive must be made
	Running time	20 s / 90°
	Sound power level	< 45 dB(A)
	Shaft coupling	clamp ◊ 8-15 mm / Ø 8-20 mm
	Position indication	mechanical with pointer
	Service life	> 100 000 cycles (0°95°0°)
Safety	Protection class	II (double insulation)
	Degree of protection	IP 54 (cable downwards)
	EMC	CE (2014/30/EU)
	LVD	CE (2014/35/EU)
	RoHS	CE (2011/65/EU - 2015/863/EU - 2017/2102/EU)
	Mode of operation	Typ 1 (EN 60730-1)
	Rated impulse voltage	4 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	117 x 67 x 66 mm
	Weight	450 g



Functionality / Properties

Operating mode

2 point:

Connect power supply to wire 1+2, actuator drives to position 1. Is also wire 3 connected to the power supply, actuator drives to position 0.

3 point:

Connect power supply to wire 1+2, actuator drives to position 1. Is wire 1+3 connected to the power supply, actuator drives to position 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 shaft with a clamp, protection against rotating with enclosed anti-rotation lock or rather at intended attachment points.

Manual override

Manual override with selfresetting pushbutton possible (the gear is disengaged as long as the button is pressed).

Signaling

The integrated auxiliary switch is freely adjustable in the angle of 0 - 95°. There is activated corresponding to the adjusted angle. The damper position can be checked by the mechanicel pointer.

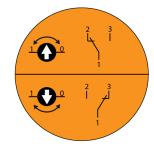
Mode switch

Mode switch with three positions at the housing:

R: rotary direction right / clockwise Adp: adaption L: rotary direction / counter clockwise

Adaption drive

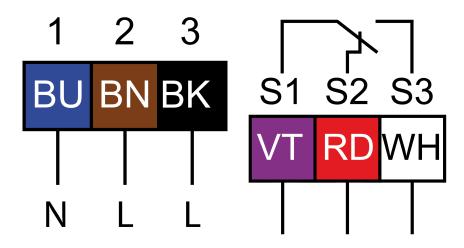
- Actuator power off
- Setting the mechanical end stops
- · Actuator power on
- Adaption enable
- Actuator drive to position 0
- Actuator drive to position 1
- Adaption disable, if desired angular range reached or rather if actuator reached endstop







Connector / Security Note

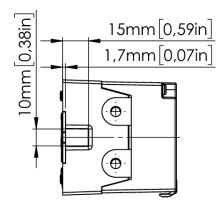


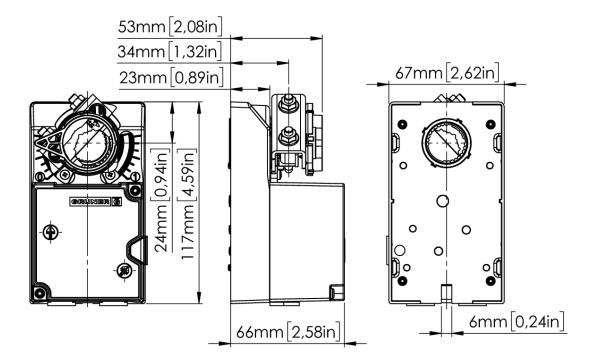
Safety remarks

- Caution: power supply voltage!
- The device 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.
- The device is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- When calculating the required torque, the specifications supplied by the damper manufacturer's (crosssection, design, installation site), and the air flow conditions must be observed.



Technical Drawing





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