

227-230-16H(-S1) Rotary Actuator

Description

Rotary actuator for adjusting dampers in HVAC installations.

- Running time 75 s / 90°
- Torque 16 Nm
- Nominal voltage 230 VAC/DC
- Control 2-/3-point
- Damper size up to approx. 3 m²
- Damper coupling clamp
∅ 8-15 mm / Ø 8-20 mm



Technical data

Electrical data

Nominal voltage	230 VAC/DC, 50/60Hz
Nominal voltage range	85...265 VAC/DC
Power consumption motor (motion)	3.5 W
Power consumption standby (end position)	1.5 W
Wire sizing	5.5 VA
Control	2-/3-point
Connection motor	cable 1000 mm, 3 x 0.75 mm ² (halogen free)
Connection feedback potentiometer	-
Connection GUAC	-
Feedback signal	-
227-230-16H-SI	
Auxiliary switch	- 1 x SPDT (ag)
Contact load	- 5 (2.5) A, 250 VAC
Switching point	- 0...95°
Connection auxiliary switch	cable 1000 mm, 3 x 0.75 mm ² (halogen free)

Functional data

Torque	16 Nm
Damper size	up to approx. 3 m ²
Synchronized 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
Running Time	75 s / 90°
Sound power level	< 45 dB(A)
Shaft coupling	clamp \varnothing 8-15 mm / \varnothing 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 auxiliary switch	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	5...95% r.H., non condensing (EN 60730-1)
Maintenance	Maintenance free

Dimensions/Weight

Dimensions	117 x 67 x 67 mm
Weight	350 g
Weight (S1)	510 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 self resetting push button possible (the gear is disengaged as long as the button is pressed).

Mode switch

Mode switch with two positions at the housing

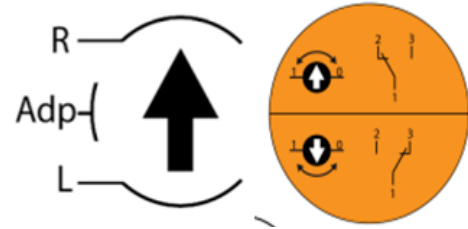
R: rotary direction right / clockwise

Adp : adaption

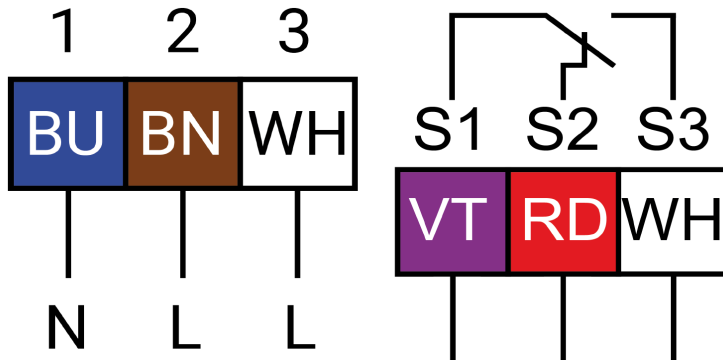
L: rotary direction / counter clockwise

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 end stop.



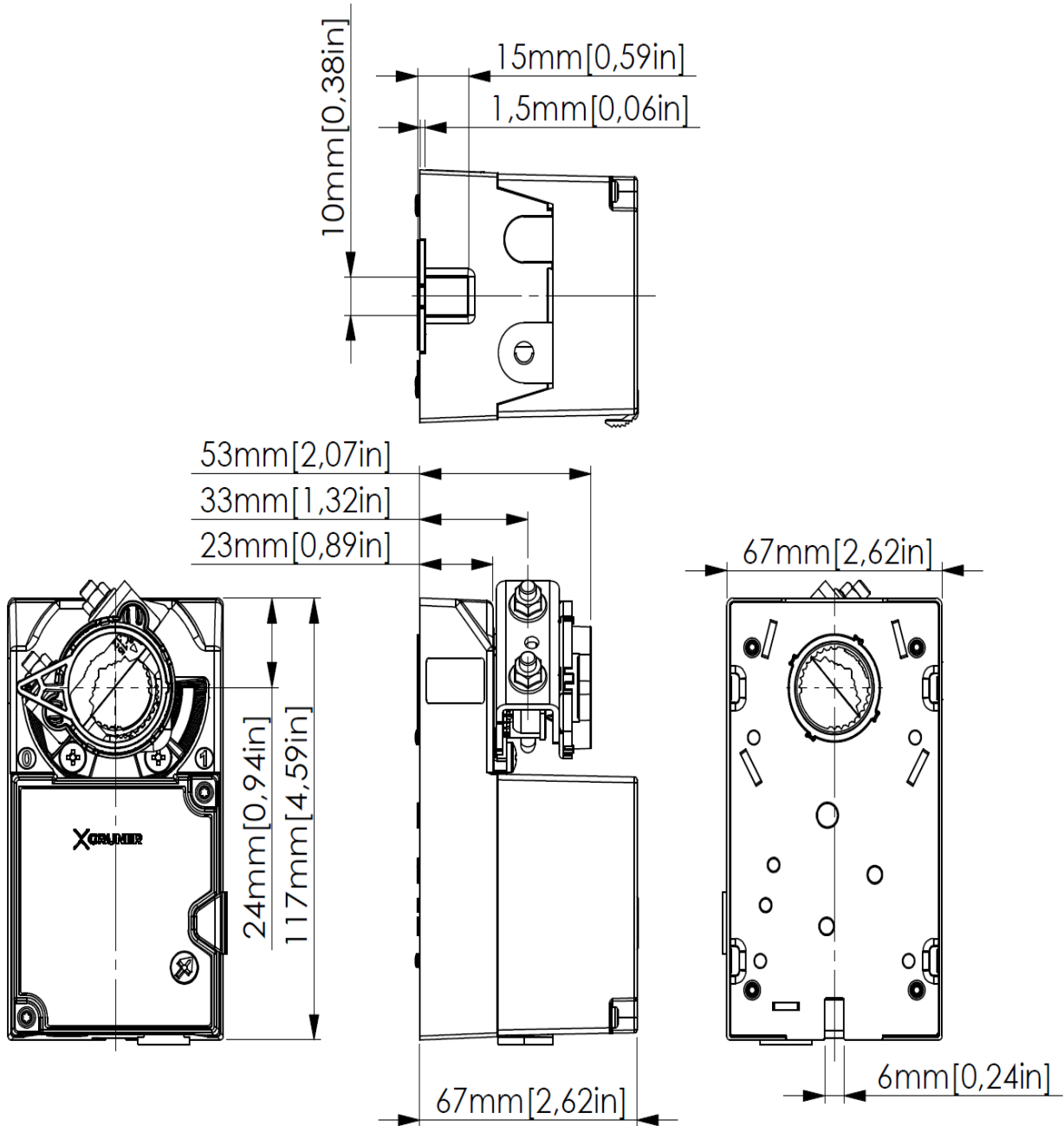
Connector / Security Note



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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