



# DB-DA230FN-S2

Damper actuators with spring return, 20 Nm

*Well-suited for applications with security dampers used as antifreeze, antismoke or for sealing in the hygienic-sanitary field.*

- Torque 20 Nm
- Two points control signal
- 2x freely adjustable auxiliary switch
- Supply voltage 230 V AC/DC
- For dampers up to 4 m<sup>2</sup> in size

## Function

Through connecting the power supply to BU+BN (1+2), the actuator move to position 1 while the pre-tensioned spring is wound up the same time. If the power supply is interrupted the actuator is moving back to position 0 by the spring power. The actuator is still maintaining the minimum torque at the damper spindle. The actuator is overload-proof, requires no limit switches and automatically stops when the end stop is reached.

## Installation

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

## Manual override

The actuator can be operated only manually while the power supply is off. The supplied lever is to open and lock the damper position. The lock stays until the power supply is put on.

## Signaling

The two integrated auxiliary swithes are freely adjustable in the angle of 0 - 95°. There are activated corresponding to the adjusted angle. The damper position can be checked by the mechanical pointer.

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## Technical data

Supply voltage	230 V AC / DC
Supply voltage range	85...265 V AC / DC
Power consumption (motion)	10,5 W
Power consumption (standby)	2,5 W
Wire sizing	22,5 VA
Control	2-point
Auxiliary switch	2 x SPDT (Ag)
Contact load	5 (2,5) A, 250 VAC
Switching point	0°...95°
Connection motor	cable 1000 mm, 2 x 0,75 mm <sup>2</sup> (halogen free)
Connection auxiliary switch	cable 1000 mm, 6 x 0,75 mm <sup>2</sup> (halogen free)
Torque motor	>20 Nm
Torque spring	>20 Nm
Damper size	up to 4 m <sup>2</sup>
Synchronised speed	± 5%
Direction of rotation	Selected by mounting
Angle of rotation	0°...max. 95° can be limited with adjustable mechanical end stops
Running time motor	75 s / 90°
Running time spring	< 20 s / 90°
Sound power level motor	< 45 dB(A)
Sound power level spring	< 65 dB(A)
Shaft coupling	clamp ∅ 9-18 mm / Ø 9-26 mm
Service life	> 60.000 cycles
Protection class	II
Isolation class	IP54 (cable donwards)
Rated impulse voltage	4 kV (EN 60730-1)
Control pollution degree	3 (EN 60730-1)
Ambient temperature	-30°C...+50°C
Storage temperature	-30°C...+80°C
Ambient humidity	5...95% r.H. non condensing
Maintenance	Maintenance free
Weight	2400 g

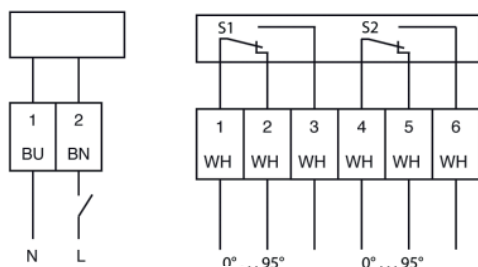
## CE

**EMC emissions & immunity standards:** This product conforms to the requirements of the EMC Directive 2014/30/EU

**Low Voltage Directive (LVD) standards:** This product conforms to the requirements of the European Low Voltage Directive (LVD) 2014/35/EU

**RoHS:** This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council

## Wiring / Safety remarks



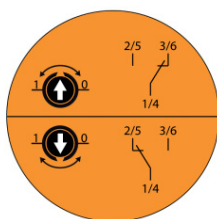
-Caution: Power supply voltage!

-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 manufacturers (cross-section, design, installation site), and the air flow conditions must be observed.



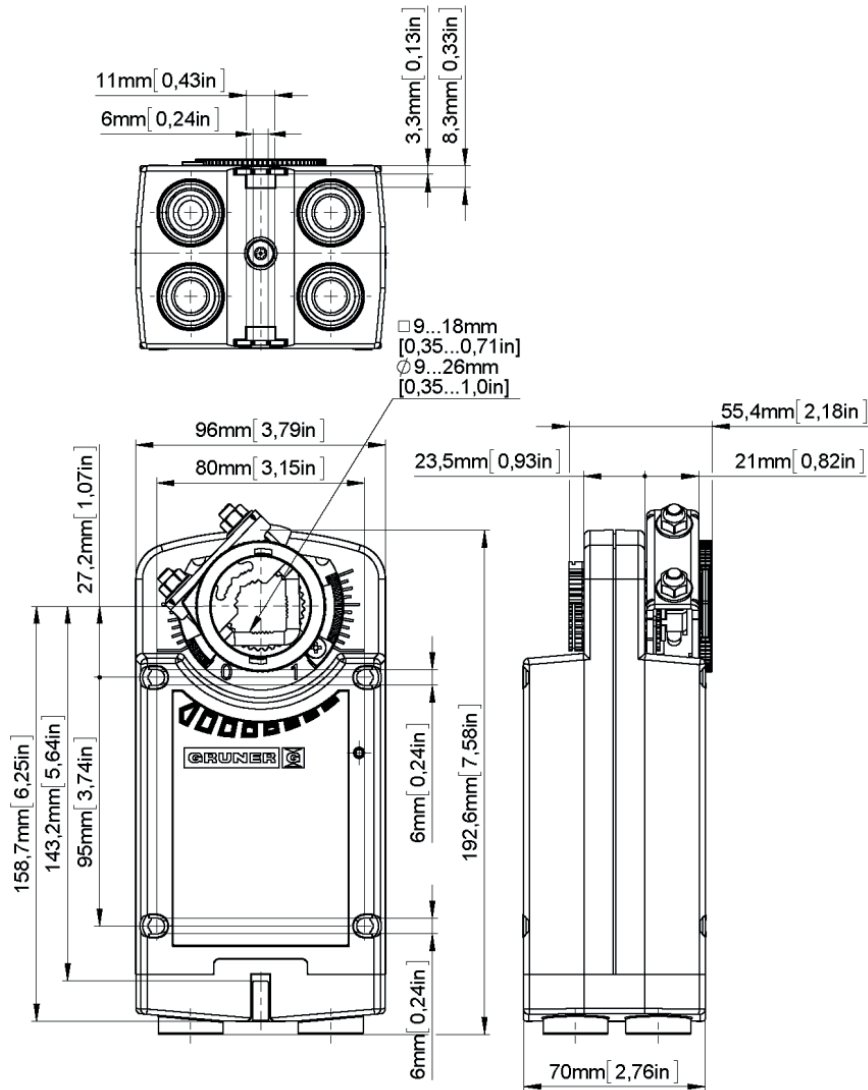
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## Dimensions



Measurements in mm

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