

## Damper Actuator 227-230-08- Series

**Rotary Actuator**

**Direct Mounted**

**Non-Fail Safe**

**Low Voltage**

**ON/OFF Control (2/3P)**



### Description

Direct Mounted, Rotary actuator for adjusting dampers in HVAC installations

- Torque 8 Nm
- Various Running Times (20/60/100/120s)
- Nominal voltage 230 VAC/DC, 50/60 Hz
- Control 2-/3-point
- Selectable Rotation direction (CW/CCW)
- Manual Override Button
- Damper size up to approx. 1.6 m<sup>2</sup>
- Mechanical, adjustable end stops
- Universal Mounting clamp Ø 8-20 mm / ◇ 8-15 mm

### Options

Auxiliary Switch

Mounting Flange

Form Fit connections

## Technical data

Order Codes	227-230-08E	227-230-08G	227-230-08I	227-230-08J
Electrical data				
Nominal Voltage	230 VAC/DC, 50/60 Hz			
Nominal Voltage Range	85...265 VAC/DC			
Power Consumption Motor(motion)	5.0 W	4.0 W	3.5 W	3.0 W
Power Consumption Standby (end position)	1.5 W	2.0 W	2.0 W	1.0 W
Wire Sizing	8.0 VA	6.5 VA	6.0 VA	6 VA
Control	2- / 3-point			
Connection	Cable L= 1000 mm, 3 x 0.75 mm² (halogen free)			
Functional data				
Running Time	20s / 90° (E)	60s / 90° (G)	100s / 90° (I)	120s / 90° (J)
Torque	8 Nm			
Damper Size	up to approx. 1.6 m²			
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			
Sound power level	< 45 dB(A)	< 35 dB(A)	< 35 dB(A)	< 35 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	Type 1 (EN 60730-1)			
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 (EN 60730-1)			
Maintenance	maintenance free			
Dimensions / Weight				
Dimensions	117 x 67 x 61 mm & Options			
Weight	350 g & Options			

## 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

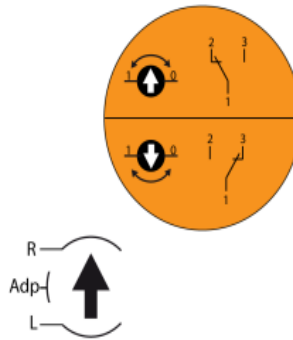
Simple direct mounting on the damper shaft with a clamp, protection against rotating with enclosed anti-rotation lock or rather at intended attachment points.

### Manual override

Manual override with self-resetting 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 mechanical pointer.



### Mode switch

Mode switch with three positions at the housing:

R: rotary direction right / clockwise

Adp: adaption

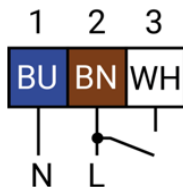
L: rotary direction / counter clockwise

### Adaption drive

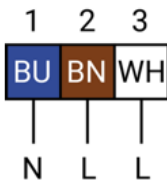
- Actuator power off
- Setting the mechanical end stops
- Actuator power on
- Adaption enable
- Actuator drive to position 0
- Actuator drive to position 1
- Adaption disable, if desired angular range reached or rather if actuator reached endstop

## Connection / Security Notes

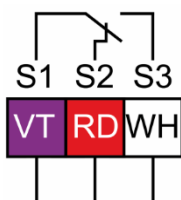
### 2- point control



### 3- point control



### Auxiliary Switch S1



### Safety Remarks

Observe the following general regulations for engineering and implementation:

All relevant national and heavy power regulations

Other country specific regulations

Country-specific regulations

Local electrical supply authority regulations

Schematics, cable listings, dispositions, specification and

arrangements from the customer or engineering office in charge

Third party specifications, e.g., general contractors or constructors.

### Disposal Notes:

The device is considered an electronic device for disposal in terms of the EUROPEAN DIRECTIVE 2012/19/EU.

The device may not be disposed as domestic garbage.

The device must be disposed through channels provided for this purpose.

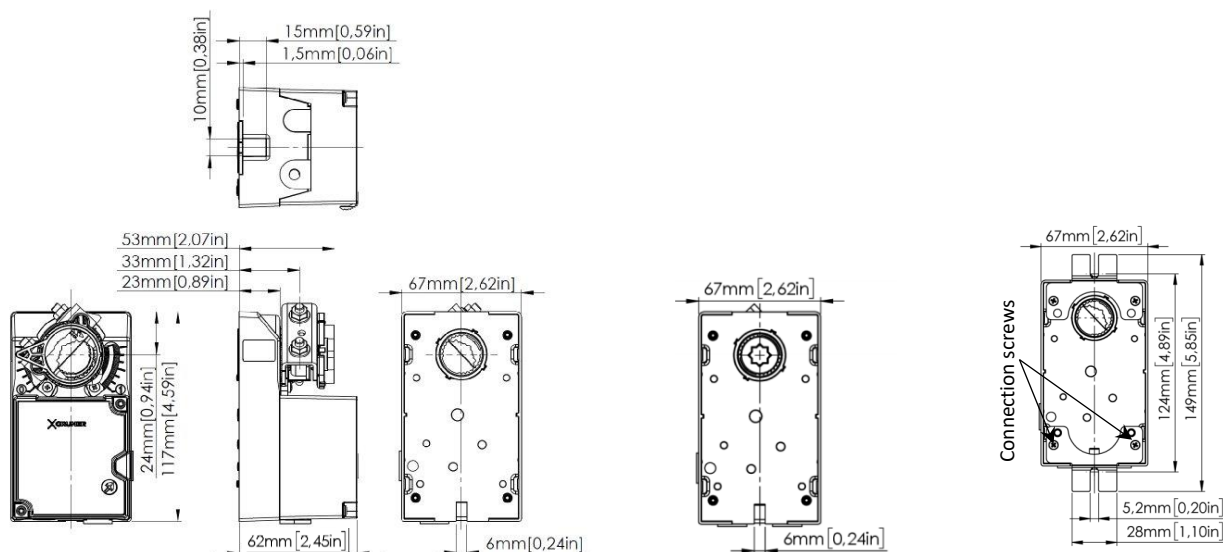
It is mandatory to comply with local currently applying laws and regulations.

## Technical Drawing

### Standard Actuator

### with Form Fit

### with Mounting Flange



## Standard Order Codes

### Damper Actuator

### Running Time (90°)

227-230-08E	20s
227-230-08G	60s
227-230-08I	100s
227-230-08J	120s

## Options





### Integrated Auxiliary Switch

Switch characteristic	SPDT
Contact Load	5 (2.5) A, 250V
Switching Range	0...95°

### Available Products (Order Codes)

227-230-08E-S1; 227-230-08G-S1; 227-230-08I-S1; 227-230-08J-S1

## Mechanical Accessories

Form Fit inserts 8x8mm. multi pack 20 pieces	227/327-8E8	
Form Fit inserts 10x10mm. multi pack 20 pieces	227/327-8E10	
Form Fit inserts 12x12mm. multi pack 20 pieces	227/327-8E12	
Mounting Flange. multi pack 10 pair (incl. connection screws)	227/327-ZS	
Position Indicators multi pack 10 pair	227/327-Indicator	
Anti- Rotation mechanism multi pack 10 pieces	227/327-Anti-Rotation	
Universal Clamp (Ø 8-20 mm / ◇ 8-15 mm). multi pack 10 pieces	227/327-Clamp	
Adapter Set for Control Ball Valve with 227 Series Actuator	227-SHT-VB	