

Technical data sheet

**227-230-15**  
**Rotary actuator**

Description

Rotary actuator for adjusting dampers in HVAC installations

- Running time 150 s / 90°
- Torque 15 Nm
- Nominal voltage 230 VAC/DC
- Control 2-/3-point
- Damper size up to approx. 3 m<sup>2</sup>
- Shaft coupling clamp  
Ø 8-15 mm / Ø 8-20 mm



Technical data

|                 |                                          |                                                        |
|-----------------|------------------------------------------|--------------------------------------------------------|
| Electrical data | Nominal voltage                          | 230 VAC/DC, 50/60 Hz                                   |
|                 | Nominal voltage range                    | 85...265 VAC/DC                                        |
|                 | Power consumption motor (motion)         | 2,5 W                                                  |
|                 | Power consumption standby (end position) | 1,5 W                                                  |
|                 | Wire sizing                              | 4,5 VA                                                 |
|                 | Control                                  | 2-/3-point                                             |
|                 | Feedback signal                          | -                                                      |
|                 | Auxiliary switch                         | -                                                      |
|                 | Contact load                             | -                                                      |
|                 | Switching point                          | -                                                      |
|                 | Connection motor                         | cable 1000 mm, 3 x 0,75 mm <sup>2</sup> (halogen free) |
|                 | Connection feedback potentiometer        | -                                                      |
|                 | Connection auxiliary switch              | -                                                      |
|                 | Connection GUAC                          | -                                                      |
| Functional data | Torque                                   | 15 Nm                                                  |

## Technical data

|                            |                                      |                                                                                                                                          |
|----------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Functional data</b>     | Damper size                          | up to approx. 3 m <sup>2</sup>                                                                                                           |
|                            | 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; after changing the angle of rotation, a adaptation drive must be made |
|                            | Running time                         | 150 s / 90°                                                                                                                              |
|                            | Sound power level                    | < 35 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°)                                                                                                         |
| <b>Safety</b>              | 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                     | 5...95% r.H., non condensing (EN 60730-1)                                                                                                |
|                            | Maintenance                          | maintenance free                                                                                                                         |
| <b>Dimensions / Weight</b> | Dimensions                           | 117 x 67 x 67 mm                                                                                                                         |
|                            | Weight                               | 530 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 pushbutton possible (the gear is disengaged as long as the button is pressed).

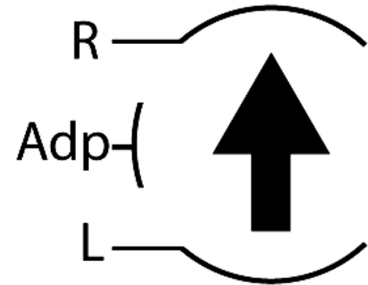
### Mode switch

Mode switch with three positions at the housing:

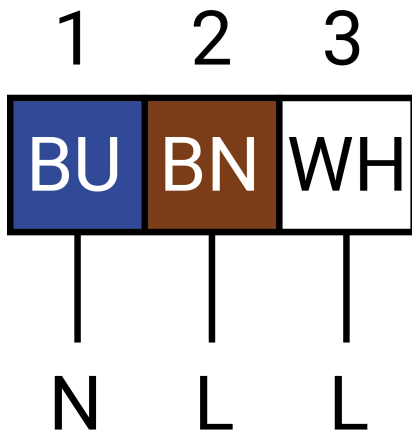
R: rotary direction right / clockwise  
Adp: adaption  
L: rotary direction left / counter clockwise

### Adaption drive

- Actuator power off
- Setting the mechanical end stops
- Actuator power on
- Adaption enable
- Actuator drives to position 0
- Actuator drives 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 (cross-section, design, installation site), and the air flow conditions must be observed.

# Technical Drawing

