

**Technical data sheet**

## 227-024-05

### Rotary actuator

**Description**
**Rotary actuator for adjusting dampers in HVAC installations**

- **Running time** 100 s / 90°
- **Torque** 5 Nm
- **Nominal voltage** 24 VAC/DC
- **Control** 2-/3-point
- **Damper size** up to approx. 1 m<sup>2</sup> clamp
- **Shaft coupling**  $\diamond$  8-15 mm /  $\varnothing$  8-20 mm


**Technical data**
**Electrical data**

|  |   |
|--|---|
| Nominal voltage                          | 24 VAC/DC, 50/60 Hz                                       |
| Nominal voltage range                    | 19...29 VAC/DC  |
| Power consumption motor (motion)         | 2,0 W   |
| Power consumption standby (end position) | 1,0 W   |
| Wire sizing                              | 4,0 VA  |
| Control                                  | 2-/3-point  |
| Feedback signal                          | -   |
| Auxiliary switch                         | -   |
| Contact load                             | -   |
| Switching point                          | -   |
| Connection motor                         | cable 1000 mm,<br>3 x 0,75 mm <sup>2</sup> (halogen free) |
| Connection feedback potentiometer        | -   |
| Connection auxiliary switch              | -   |
| Connection GUAC                          | -   |

**Functional data**

|                       |   |
|-----------------------|---|
| Torque                | > 5 Nm  |
| Damper size           | up to approx. 1 m <sup>2</sup>  |
| Synchronised speed    | ±5%   |
| Direction of rotation | selected by switch  |
| Manual override       | gearing latch disengaged with<br>pushbutton, self-resetting             |
| Angle of rotation     | 0°...max. 95°<br>can be limited with adjustable<br>mechanical end stops |
| Running time          | < 100 s / 90°   |
| Sound power level     | < 35 dB(A)  |
| Shaft coupling        | clamp<br>$\diamond$ 8-15 mm / $\varnothing$ 8-20 mm                     |

## Technical data

### Functional data

|                     |                                  |
|---------------------|----------------------------------|
| Position indication | mechanical with pointer          |
| Service life        | > 100 000 cycles (0°...95°...0°) |

### Safety

|                                      |  |
|--------------------------------------|--|
| Protection class                     | III (safety extra-low voltage)               |
| 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                | 0,8 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.,<br>non condensing (EN 60730-1) |
| Maintenance                          | maintenance free                             |

### Dimensions / Weight

|            |                  |
|------------|------------------|
| Dimensions | 117 x 67 x 66 mm |
| Weight     | 350 g            |

## Operating mode / 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.

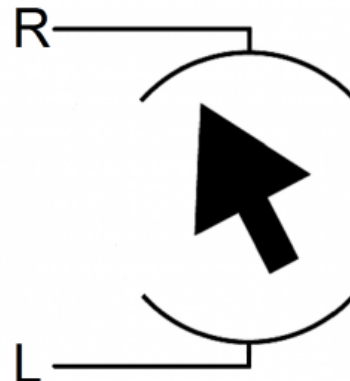
### Manual override

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

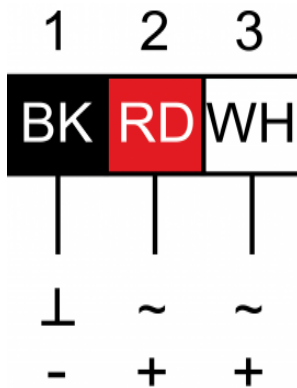
### Mode switch

Mode switch with two positions at the housing:

R: rotary rotation right / clockwise  
L: rotary rotation left / counter clockwise



## Connection / Safety remarks

**Safety remarks**

- Connect via safety isolation transformer!
- 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

