

## 363C-024-60/8F14

### Rotary Actuator

#### Description

Rotary actuator for adjusting dampers in HVAC installations.

- Running time 150 s / 90°
- Torque 60 Nm
- Nominal voltage 24V AC/DC
- Control continuous control (0)2...10 VDC
- Damper size up to approx. 10 m<sup>2</sup>
- Shaft coupling form fit 14 mm (8F14)



#### Technical data

##### Electrical data

<b>Nominal voltage</b>	24V AC/DC, 50/60Hz
<b>Nominal voltage range</b>	19...29 VAC/DC
<b>Power consumption motor (motion)</b>	13.5 W
<b>Power consumption standby (end position)</b>	1.5 W
<b>Wire sizing</b>	16.5 VA
<b>Control</b>	continuous control (0)2...10 VDC /Ri > (100 kΩ) 50 kΩ (0)4...20 mA
<b>Feedback signal</b>	(0)2...10 VDC, max. 5 mA
<b>Auxiliary switch</b>	-
<b>Contact load</b>	-
<b>Switching point</b>	-
<b>Connection motor</b>	cable 1000 mm, 4 x 0.75 mm <sup>2</sup> (halogen free)
<b>Connection auxiliary switch</b>	-

### Functional data

<b>Torque</b>	60 Nm
<b>Damper size</b>	up to approx. 10 m <sup>2</sup>
<b>Synchronized speed</b>	±5%
<b>Direction of rotation</b>	selected by switch
<b>Manual override</b>	gearing latch disengaged with pushbutton, self-resetting
<b>Angle of rotation</b>	0°...max. 95°
<b>Running Time</b>	150 s / 90°
<b>Sound power level</b>	< 45 dB(A)
<b>Shaft coupling</b>	form fit 14 mm (8F14)
<b>Service life</b>	> 60 000 cycles (0°...95°...0°) > 1 000 000 partial cycles (max. ±5°)

### Safety

<b>Protection class</b>	III (safety extra-low voltage)
<b>Degree of protection</b>	IP 54
<b>EMC</b>	CE (2014/30/EU)
<b>LVD</b>	CE (2014/35/EU)
<b>RoHS</b>	CE (2011/65/EU - 2015/863/EU 2017/2102/EU)

### Operating mode

<b>Operating mode</b>	S3-50% ED (EN 60034-1)
<b>Mode of operation</b>	Typ 1 (EN 60730-1)
<b>Rated impulse voltage supply / control</b>	0.8 kV (EN 60730-1)
<b>Control pollution degree</b>	3 (EN 60730-1)
<b>Ambient temperature normal operation</b>	-30°C...+50°C
<b>Storage temperature</b>	-30°C...+80°C
<b>Ambient humidity</b>	5...95% r.H., non-condensing (EN 60730-1)
<b>Maintenance</b>	Maintenance free

### Dimensions/Weight

<b>Dimensions</b>	193 x 96 x 60 mm
<b>Weight</b>	1650 g

## Functionality / Properties

### Operating mode

Connect power supply to wire 1+2 and a reference signal Y to wire 3 in range of (0)2...10 VDC, actuator drives to its specified position. The actual damper position (0...100%) is a feedback signal U on wire 4 for example to share with other actuators. 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

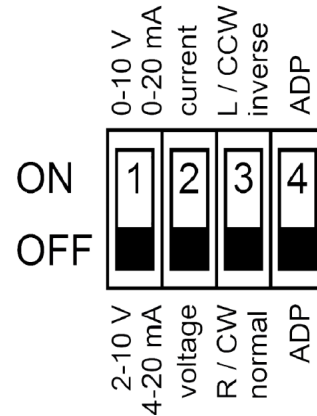
Manual override with selfresetting pushbutton possible (the gear is disengaged as long as the button is pressed).

### Mode switch

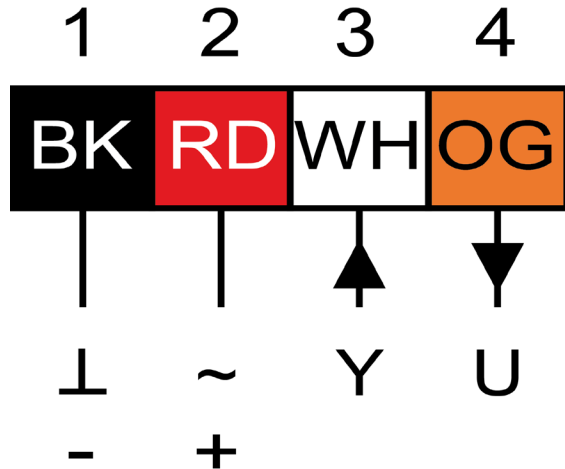
DIP switch under the case cover

### Adaption drive

- Actuator power off
- Setting up 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



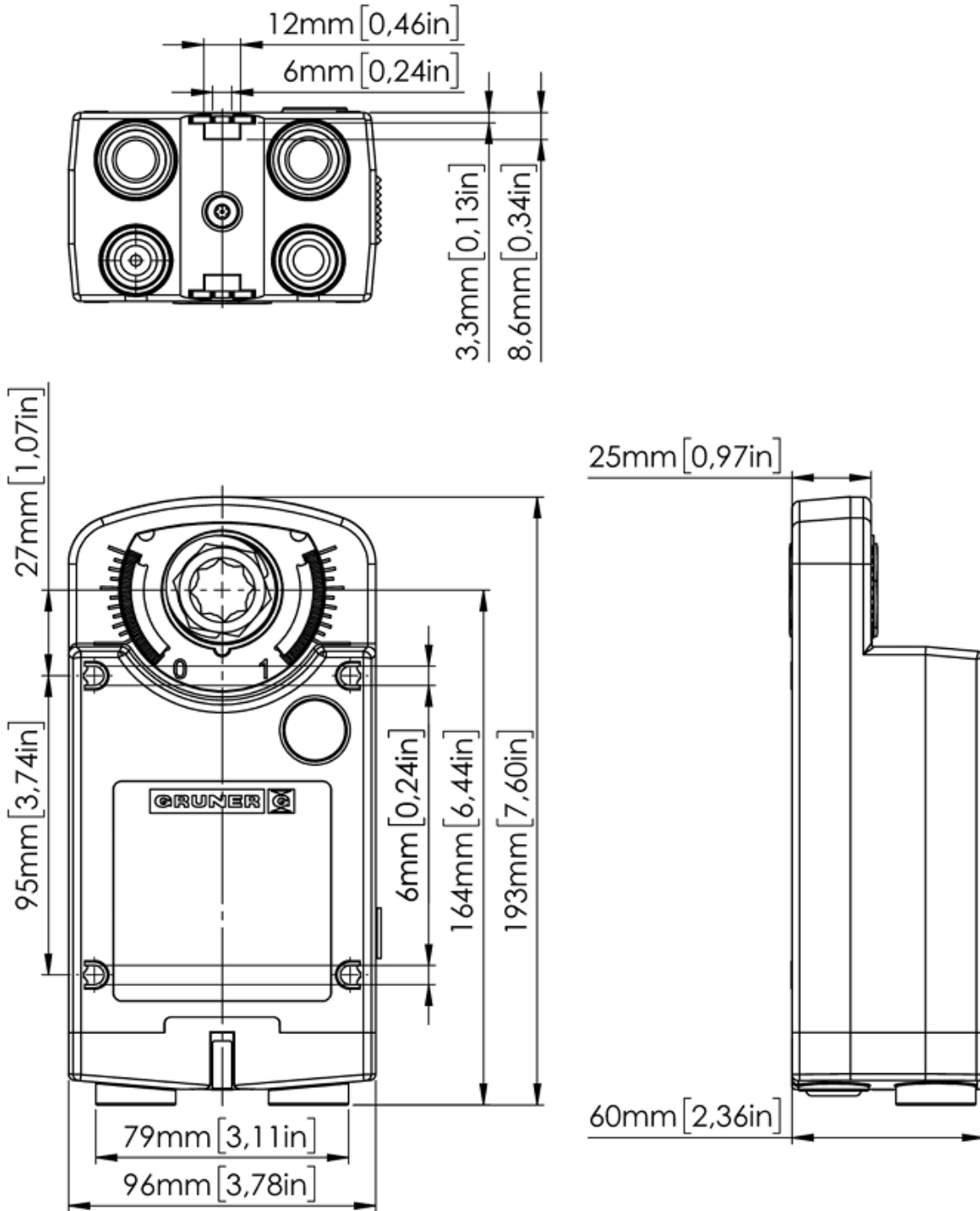
### Connector / Security Note



### Safety remarks

- 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.
- Cables must not be removed from the device.
- The cable of this actuator cannot be replaced. If the cable is damaged, the actuator should be scrapped.
- 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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