ACTUATORS

X GRUNER

SWITCH TO INNOVATIONS

Technical data sheet

363C-024-40
Rotary actuator

Description

Rotary actuator for adjusting dampers in HVAC installations

- Running time
- Torque
- Nominal voltage
- Control

- Damper size
- Shaft coupling

150 s / 90°
40 Nm
24 VAC/DC
continuous control (0)2...10 VDC
up to approx. 8 m²
clamp
◊ 9-18 mm / Ø 9-26 mm

Technical data

Electrical data	Nominal voltage	24 VAC/DC, 50/60 Hz
	Nominal voltage range	19...29 VAC/DC
	Power consumption motor (motion)	7,0 W
	Power consumption standby (end position)	2,0 W
	Wire sizing	9,0 VA
	Control	continuous control (0)2...10 VDC / Ri > 100 kΩ (0)4...20 mA
	Feedback signal	(0)2...10 VDC, max. 5 mA
	Auxiliary switch	-
	Contact load	-
	Switching point	-
	Connection motor	cable 1000 mm, 4 x 0,75 mm² (halogen free)
	Connection feedback potentiometer	-
	Connection auxiliary switch	-
	Connection GUAC	-
Functional data	Torque	40 Nm

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Technical data

Functional data		
	Damper size	up to approx. 8 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
	Running time	150 s / 90°
	Sound power level	< 45 dB(A)
	Shaft coupling	clamp ◊ 9-18 mm / Ø 9-26 mm
	Position indication	mechanical with pointer
	Service life	> 60 000 cycles (0°...95°...0°) > 1 000 000 partial cycles (max. ±5°)

Safety		
	Protection class	III (safety extra-low voltage)
	Degree of protection	IP 54
	Cable mounting type	
	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 supply / control	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., non condensing (EN 60730-1)
	Maintenance	maintenance free

Dimensions / Weight		
	Dimensions	193 x 96 x 60 mm
	Weight	1600 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.
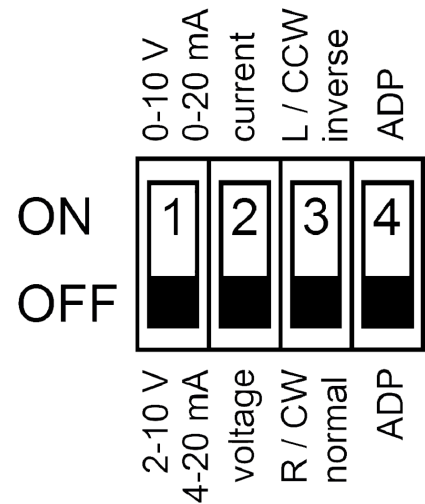
Manual override

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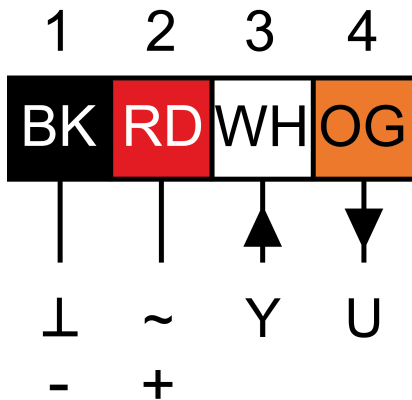
Mode switch

DIP switch under the case cover

Adaption drive

- Actuator power off
- Setting 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
- "Y" refers to the measured angular range

	0-10 V	current	L / CCW	ADP
	0-20 mA		inverse	
ON	1	2	3	4
OFF				
	2-10 V	voltage	R / CW	ADP
	4-20 mA		normal	

Connector / Security Note

1	2	3	4
BK	RD	WH	OG

⊥ ~ Y U

− +

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

GRUNER AG

Bürglestrasse 15-17 | 78564 | Wehingen

Tel: +49 7426 948-0 | Fax: +49 7426 948-200 | www.gruner.de | info@gruner.de

Technical Drawing

11mm[0,43in]
6mm[0,24in]
3,3mm[0,13in]
8,3mm[0,32in]
45,5mm[1,79in]
35,5mm[1,39in]
25mm[0,97in]
6mm[0,24in]
41,4mm[1,61in]
95mm[3,74in]
164mm[6,44in]
193mm[7,6in]
96mm[3,78in]
60mm[2,36in]