ACTUATORS

Technical data sheet

328CS-024-02A Rotary actuator

Description

Rotary actuator for adjusting dampers in HVAC installations

1 s / 90°

2 Nm

- Running time
- Torque
- Nominal voltage
- Control
- Damper size
- Shaft coupling

24 VAC/DC		
continuous control		
(0)210 VDC		
up to approx. 0.4 m ²		
clamp		
◊ 8-15 mm / Ø 8-20 mm		





Technical data

Electrical data

Nominal voltage	24 VAC/DC, 50/60 Hz
Nominal voltage range	1929 VAC/DC
Power consumption motor (motion)	11,0 W
Power consumption standby (end position)	1,0 W
Wire sizing	14,0 VA
Control	continuous control (0)210 VDC / Ri > (100 k Ω) 50 k Ω resolution 80 mV (0)420 mA / Rext. = 500 Ω resolution 0,16 mA
Feedback signal	(0)210 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	-



Technical data		
Electrical data	Connection GUAC	-
Functional data	Torque	2 Nm
	Damper size	up to approx. 0.4 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 ; after changing the angle of rotation, a adaptation drive must be made
	Running time	< 1 s / 90°
	Sound power level	< 60 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°) > 1 500 000 partial cycles (max. ±5°)
Cafabu	Protection class	III (oofatu aytea layy yaltaga)
Safety	Degree of protection	III (safety extra-low voltage) IP 54 (cable downwards)
	EMC	· ·
	LVD	CE (2014/30/EU)
	RoHS	CE (2014/35/EU) CE (2011/65/EU - 2015/863/EU -
	копз	2017/2102/EU)
	Mode of operation	Тур 1 (ЕМ 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	595% r.H., non condensing (EN 60730-1)
	Maintenance	maintenance free
Dimensions / Weight	Dimensions	172 x 65 x 87 mm
	Weight	700 g
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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. A supply of direct current (VDC) is preferred.

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).

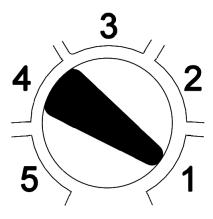
Mode switch

Mode switch with five positions at the housing:

- 1: rotary direction right 2-10 VDC
- 2: rotary direction right 0-10 VDC
- 3: adaption
- 4: rotary direction left 0-10 VDC
- 5: rotary direction left 2-10 VDC

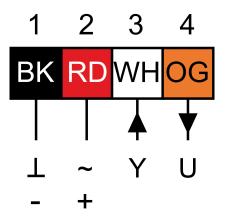
Adaption drive

- 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





Connector / Security Note

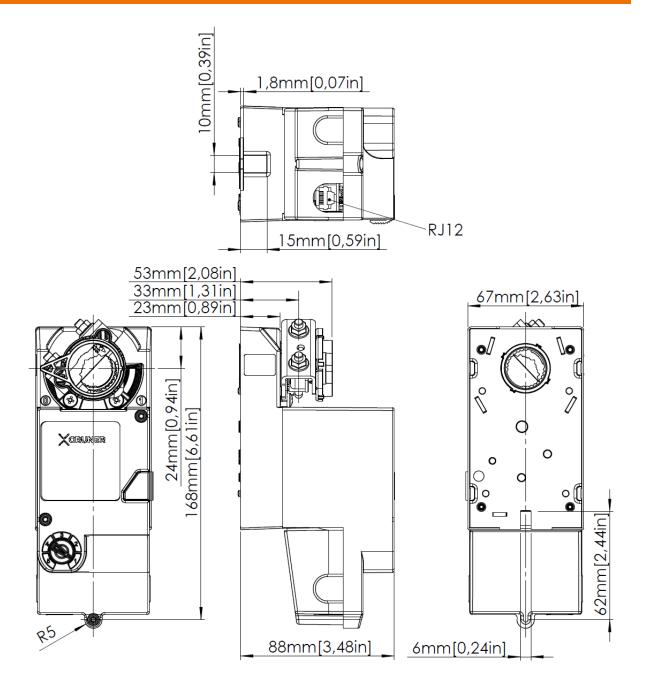


Safety remarks

- 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.
- 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





Montage / Mounting

