

Technical data sheet

227CS-024-02A

Continuous control rotary drive without spring return

Description

Actuator for adjusting air dampers of 90° angle of rotation to be used in HVAC installations.

- **Running time Motor** **1 s / 90°**
- **Torque Motor** **2 Nm**
- **Nominal Voltage** **24 VAC/DC**
- **Control** **Continuous control**
DC (0)2...10 VDC
- **Damper size** **up to approx. 0.4 m²**
- **Damper coupling** **Clamp**
∅ 8-15 mm / Ø 8-20 mm



Technical data

Electrical data

Nominal voltage	24 VAC/DC
Nominal voltage range	22...29 VAC/DC
Power consumption motor (motion)	11,0 W
Power consumption standby (end position)	1,0 W
Wire sizing	15,0 VA
Control	Continuous control (0)2...10 VDC / Ri >(100 kΩ) 50kΩ (0)4...20 mA / Rext.= 500Ω
Position feedback	(0)2...10 VDC, max 5 mA
Auxiliary switch	-
Contact load	-
Switching point	-
Connection Motor	Cable 1000 mm, 4 x 0,75 mm ² (halogen free)
Connection Auxiliary switch	-
Connection Position feedback	-
Connection GUAC	-

Functional data

Torque Motor	> 2 Nm
Synchronised speed	±5%
Direction of rotation	selected by switch
Manual override	Gearing latch disengaged with pushbutton, self-resetting
Angle of rotation	0° ... max. 95°
Running time Motor	< 1 s / 90°
Sound power level Motor	< 60 dB(A)
Damper coupling	Clamp ∅ 8-15 mm / Ø 8-20 mm

Technical data

Functional data

Position indication	mechanical with pointer
Service life	> 60'000 cycles (0° - 95° - 0°) > 1'500'000 partial cycles (max. ±5°)

Safety

Protection class	III (safety extra-low voltage)
Degree of protection	IP54 (Cable downwards)
EMC	CE (2014/30/EU)
LVD	CE (2014/35/EU)
RoHS	CE (2011/65/EG)
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.F., non condensing (EN 60730-1)
Maintenance	maintenance free

Dimensions/ Weight

Dimensions	172,5 x 65 x 90 mm
Weight	ca. 790 g

Operating mode / Properties

Operating mode

Through connecting the power supply to BU+BN (1+2) and a reference signal Y to BK (3) of (0)2...10VDC, moves the actuator to its specified position. The actual damper position 0...100% is a feedback signal U for example to share the signal 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 spindle with a universal spindle clamp, supplied with an anti-rotation strap to prevent the actuator from rotating.

Manual override

Manual override is possible with the self-resetting pushbutton (the gearing latch remains disengaged as long as the pushbutton is pressed)

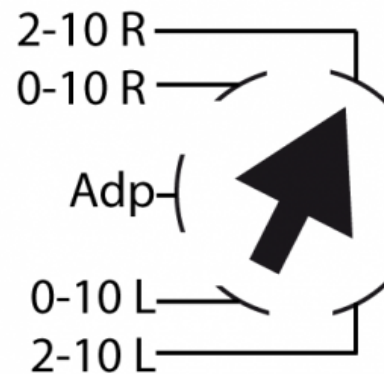
Mode- switch

Mode- switch with five positions at the housing

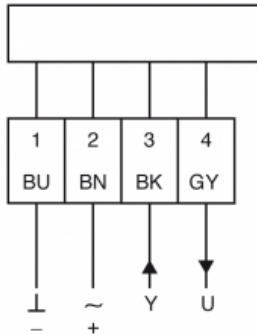
- Rotary direction right 2-10 V
- Rotary direction right 0-10 V
- Adp = Adaption
- Rotary direction left 0-10 V
- Rotary direction left 2-10 V

Adaption drive

Adaption drive is only possible with internal endstops (93°±2°).



Connection / Safety remarks


Safety remarks

- Connect via safety isolation transformer
- The actuator 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.
- When calculating the required torque, the specifications supplied by the damper manufacturers (cross-section, design, installation site), and the air flow conditions must be observed.
- The actuator is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Technical drawing

