



Industrial Damper Actuator IP66 On/Off and Raise/Lower

ORL

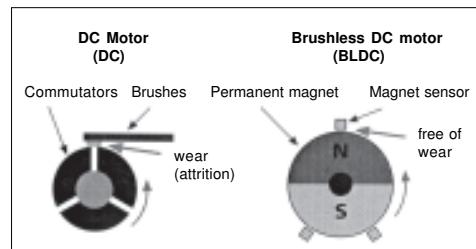
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...for those who like to know more!

Brush less DC-Motor (BLDC)

Brushless – all the way...

AP applies exclusively brushless DC-Motor .



Features and Benefits of BLDC:

- No brushes or commutators to wear out
- Long life, thanks to touchless controlling
- Low noise, no sliding parts

Electronic motor management

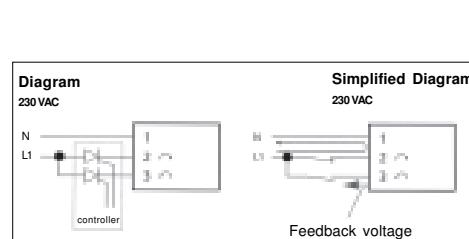
- Exact control of speed and torque
- Wide area of running time and voltage

Result:
Long and reliable life of AP actuators.

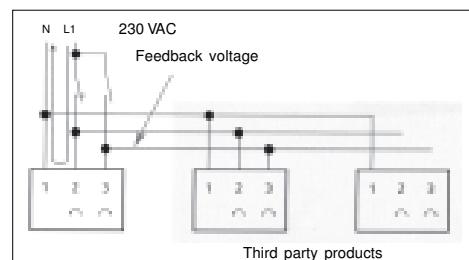
Self - Centering Adapter

Our Self Centering, Snap-In Universal Mounting Clamp is as easy as 1, 2, 3...

1. The clamp snaps in quickly and easily without any clips or tools
2. Only one nut to adjust to center on different control shaft diameters
 - Small housing from Ø 8...20 mm shaft diameter
 - Medium housing from Ø 10...26 mm shaft diameter
3. The clamp teeth bite and hold the shaft to eliminate slippage or lateral movement



Equivalent business: Leakage voltage can disturb the functioning of third party products by paralleling.



Result: 3-point-actuators have to be free from feedback voltage!

Result:
This is the easiest, quickest and surest way to direct couple an actuator to a damper or valve control shaft!

We reserve the right to make changes and improvements in our products which may effect the accuracy of the information contained in this leaflet.



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Features

- On/off and Floating combined in one actuator
- Wide supply voltage range
- Automatic shutoff either when reaching programmed hard-stop or when reaching mechanical end-stop
- No return voltage
- Innovative solution for 100% self-locking

CE

ORL



Technical Data

Power supply	24Vac +/-20% 50/60Hz 24Vdc +/-10% 230Vac 50/60Hz (90 to 264V)	Identical accessories for all models Identical control functionality for all models Homogeneous control and voltage variants for all models Universal wiring schematics Simple one-handed manual positioning No disengaging of gears required
Starting Current	max. 3A at impuls 5ms, 5/10/15Nm max 6A 20Nm	Manual positioning crank tool included as standard Direction of rotation (CW or CCW) selectable via switch Centric clamping adapter as a standard feature Form fit adapter available in different sizes Special solutions for aggressive environments available upon request Very quiet operation Constant running time, independent of load Constant torque throughout the entire operating range
Protection class	24V 230V	III safety extra low voltage II protective insulation
Electrical connection	Cable 0,9m, 3 x 0,75mm ²	
Direction of rotation	Selected by Switch L / R (ccw/cw) or by mounting L / R (ccw/cw)	
Manual override	One-handed positioning Without disengaging of gears	
Angle of rotation	Maximum 95°	
Adapter for axis	Self centering, Ø 8-20 mm	
Running time	90 s (± 5%), independent of load	
Noise level	< 35 dB (A)	
Position indication	Mechanical	
Ambient temperature	-30...+ 50°C	
Storage temperature	-40...+ 80°C	
Ambient humidity	5...95% rH	
EMC	EN60730-1, EN60730-2, EN55022 ClassB, EN55014, EN61000	
Weight	850g - 1200g (depends on version)	
Maintenance	Maintenance free	
Standards	The actuators meet CE requirements (EN 60730-1)	
Accessories	AUX 1SW AUX 2SW POT 1K	Auxiliary switches 1 x SPDT Auxiliary switches 2 x SPDT Feedback potentiometer 1000 ohm

Automatikprodukter

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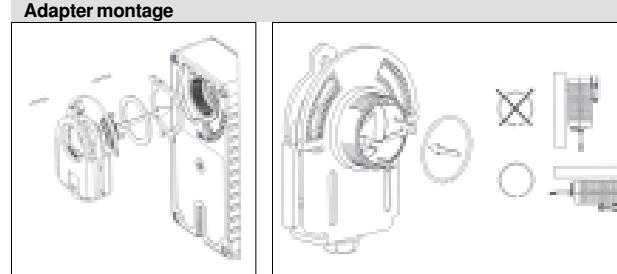
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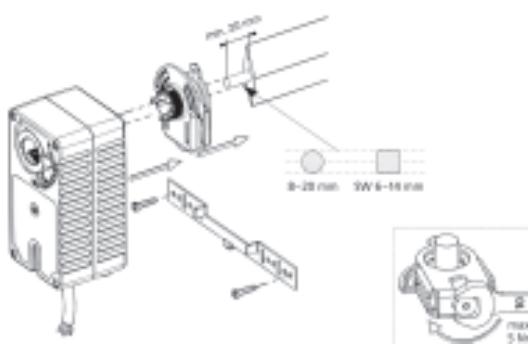
Mounting

- Direct coupled to shaft
- Fast and easy installation
- Snap in, self centering single nut universal mounting clamp
- Fast, flexible and easy installation. Even short shaft mounting!

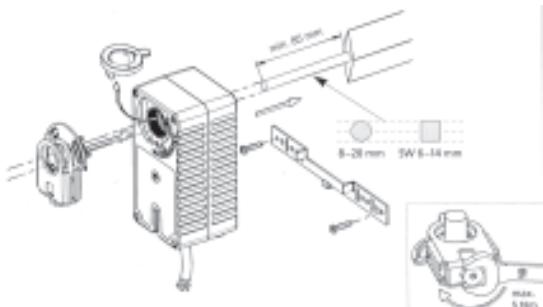
Adapter montage



Short shaft Mounting (min 20mm)



Standard Mounting (min 85mm)



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Operating Control

Pictures

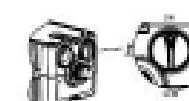
Manual override
(crank)



Function

For manual adjustment

1. Press the red button, when the actuator is connected to the power supply
2. Slowly turn the actuator to the desired position
3. Wait until the actuator has stopped prior to changing direction
4. Slowly move against the limit stops



Direction of rotation

Adapt direction of rotation of the damper by using the switch of the actuator.

Standard operating

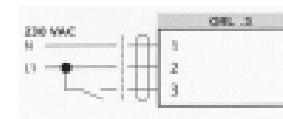
Control is achieved via the transmission line 2 and 3 either with the functions On/Off or with the functions On/Off and stop(floating).

The actuator is overload protected, does not require any limit switches and automatically stops at the mechanical end stop.

Manual positioning is achieved with the enclosed positioning key which turns the actuator into desired position.

Product	Power Consumption		
	Operating	Stop	Transformer sizing
ORL 54P	3VA/1,5W	1W	4VA
ORL 53P	5VA	2VA	5,5VA
ORL 104P	4VA/2W	1W	5,5VA
ORL 103P	7VA	2VA	7VA
ORL 154P	5,5VA/3W	1W	7VA
ORL 153P	9VA	2VA	8,5VA
ORL 204P	7VA/4W	1W	7VA
ORL 203P	11VA	2VA	8,5VA

Wiring Diagram 230V

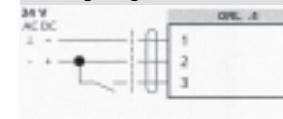


ON/OFF

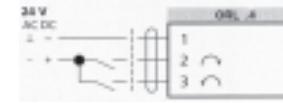


Floating

Wiring Diagram 24V



ON/OFF



Floating

Parallel connecting possible - Attention to power consumption

All Dimension in mm

