

RobustLine damper actuator for adjusting dampers in industrial plants and in technical building installations

- Air damper size up to approx. 2 m²
- Torque motor 10 Nm

Technical data

- Nominal voltage AC/DC 24 V
- · Control Open-close, 3-point
- Optimum protection against corrosion and chemical influences, UV radiation, damp and condensation



Electrical da	a Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 19.228.8 V
	Power consumption in operation	1.5 W
	Power consumption in rest position	0.2 W
	Power consumption for wire sizing	3.5 VA
	Connection supply / control	Cable 1 m, 3 x 0.75 mm ² (halogen-free)
	Parallel operation	Yes (note the performance data)
Functional da	a Torque motor	10 Nm
	Direction of motion motor	selectable with switch 0 (ccw rotation) / 1 (cw rotation)
	Manual override	with push-button, can be locked
	Angle of rotation	Max. 95°
	Angle of rotation note	can be limited on both sides with adjustable mechanical end stops
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Running time motor

Mechanical interface

Sound power level, motor

Safety

Position indication	Mechanically, pluggable	
Protection class IEC/EN	III Safety Extra-Low Voltage (SELV)	
Degree of protection IEC/EN	IP66/67	
Degree of protection NEMA/UL	NEMA 4, UL Enclosure Type 4	
EMC	CE according to 2014/30/EU	
Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14	
Certification UL	cULus according to UL60730-1A, UL60730-2-	
	14 and CAN/CSA E60730-1:02	
Mode of operation	Type 1	
Rated impulse voltage supply / control	0.8 kV	
Control pollution degree	4	
Ambient temperature	-3050 °C	
Non-operating temperature	-4080 °C	
Ambient humidity	100% r.H.	
Maintenance	Maintenance-free	
Weight	2.0 kg	

150 s / 90°

Universal spindle clamp 10...20 mm

35 dB(A)

Safety notes



Weight

- The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- Junction boxes must at least correspond with enclosure IP degree of protection!
- The cover of the protective housing may be opened for adjustment and servicing.
 When it is closed afterwards, the housing must seal tight (see installation instructions).
- The device may only be opened at the manufacturer's site. It does not contain any
 parts that can be replaced or repaired by the user.



Safety notes

- To calculate the torque required, the specifications supplied by the damper manufacturers concerning the cross-section, the design, the installation site and the ventilation conditions must be observed.
- The device contains electrical and electronic components and must not be disposed
 of as household refuse. All locally valid regulations and requirements must be
 observed.
- The information on chemical resistance refers to laboratory tests with raw materials and finished products and to trials in the field in the areas of application indicated.
- The materials used may be subjected to external influences (temperature, pressure, constructional fixture, effect of chemical substances, etc.), which cannot be simulated in laboratory tests or field trials.
- The information regarding areas of application and resistance can therefore only serve as a guideline. In case of doubt, we definitely recommend that you carry out a test. This information does not imply any legal entitlement. Belimo will not be held liable and will provide no warranty. The chemical or mechanical resistance of the materials used is not alone sufficient for judging the suitability of a product. Regulations pertaining to combustible liquids such as solvents etc. must be taken into account with special reference to explosion protection.
- The cables must not be removed from the device installed in the interior.
- When used under high UV loads, e.g. extreme sunlight, the use of flexible metallic or equivalent cable conduits is recommended.

Product features

Fields of application

The actuator is particularly suitable for utilisation in outdoor applications and is protected against the following weather conditions:

- Wood drying
- Animal breeding
- Food processing
- Agricultural
- Swimming baths / bathrooms
- Rooftop ventilation plant rooms
- General outdoor applications
- Changing atmosphere
- Laboratories

Resistances

Noxious gas test EN 60068-2-60 (Fraunhofer Institut ICT / DE) Salt fog spray test EN 60068-2-52 (Fraunhofer Institut ICT / DE) Ammoniac test DIN 50916-2 (Fraunhofer Institut ICT / DE) Climate test IEC60068-2-30 (Trikon Solutions AG / CH) Disinfectant (animals) (Trikon Solutions AG / CH)

UV Test (Solar radiation at ground level) EN 60068-2-5, EN 60068-2-63 (Quinel / Zug CH)

Used materials

Actuator housing polypropylene (PP)

Cable glands / hollow shaft polyamide (PA)

Connecting cable FRNC

Clamp / screws in general Steel 1.4404

Seals EPDM

Form fit insert aluminium anodised

Simple direct mounting

Simple direct mounting on the damper spindle with an universal spindle clamp, supplied with an anti-rotation device to prevent the actuator from rotating.

Manual override

Manual override with push-button possible (the gear is disengaged for as long as the button is pressed or remains locked).

Adjustable angle of rotation

Adjustable angle of rotation with mechanical end stops. Standard setting 0 ... 90°. The housing cover must be removed to set the angle of rotation.

High functional reliability

The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.



Accessories

	Description	Туре
Electrical accessories	Auxiliary switch, add-on, 2 x SPDT, grey	S2A GR
	Feedback potentiometer 140 Ohm, add-on	P140A
	Feedback potentiometer 200 Ohm, add-on	P200A
	Feedback potentiometer 500 Ohm, add-on	P500A
	Feedback potentiometer 1 kOhm, add-on	P1000A
	Feedback potentiometer 2.8 kOhm, add-on	P2800A
	Feedback potentiometer 5 kOhm, add-on	P5000A
	Feedback potentiometer 10 kOhm, add-on	P10000A

Electrical installation

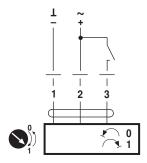


Notes

- · Connection via safety isolating transformer.
- Parallel connection of other actuators possible. Observe the performance data.

Wiring diagrams

AC/DC 24 V, open-close



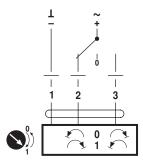
Cable colours:

1 = black

2 = red

3 = white

AC/DC 24 V, 3-point



Cable colours:

1 = black

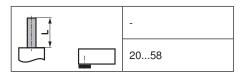
2 = red

3 = white



Dimensions [mm]

Spindle length



Clamping range

01	_	\Diamond
1020	814	1020

Dimensional drawings

