

Technical data sheet

Modulating Robustline damper actuator for operating air dampers in industrial plants and in the technical building installations • For air dampers up to approx. 3.2 m²

- Torque 18 Nm
- Nominal voltage AC/DC 24 V
- Control: modulating DC 0 ... 10 V
- Position feedback DC 2 ... 10 V
- Optimum protection against
- Corrosion and chemical influences
- UV radiation
- Damp and condensation



Technical data

Electrical data	Nominal voltage	AC 24 V, 50/60 Hz / DC 24 V	
	Nominal voltage range	AC/DC 19.2 28.8 V	
	Power consumption Operation	2 W @ nominal torque	
	At rest	0.4 W	
	Wire sizing	4 VA	
	Connection	Halogen-free cable 1 m, 4 x 0.75 mm ²	
Functional data	Torque (nominal torque)	Min. 18 Nm @ nominal voltage	
	Control Control signal Y	DC 0 10 V, typical input impedance 100 k Ω	
	Operating range	DC 2 10 V	
	Position feedback (measuring voltage U)	DC 2 10 V	
	Position accuracy	±5%	
	Direction of rotation	Reversible with switch 0 / 1	
	Direction of motion at Y = 0 V	At switch position 0 K resp. 1 🔿	
	Manual override	Gearing latch disengaged with pushbutton, can be locked	
	Angle of rotation	Max. 95°⊲, can be limited at both ends with adjustable	
		mechanical end stops	
	Running time	150 s / 90°∢	
	Sound power level	Max. 45 dB (A)	
	Position indication	Mechanical, pluggable	
Safety	Protection class	III Safety extra-low voltage	
	Degree of protection	IP66 + IP67	
	EMC	CE according to 2004/108/EC	
	Mode of operation	Type 1 (EN 60730-1)	
	Rated impulse voltage	0.8 kV (EN 60730-1)	
	Control pollution degree	4 (EN 60730-1)	
	Ambient temperature	–30 +50 ° C	
	Non-operating temperature	-40 +80 ° C	
	Ambient humidity	100% r.H.	
	Maintenance	Maintenance-free	
Dimensions / Weight	Dimensions	See «Dimensions» on page 3	
-	Weight	Approx. 1.55 kg	

Safety notes



- The actuator is not allowed to be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Assembly must be carried out by trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- 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 on the inside may only be opened up in the factory. It does not contain any parts that can be replaced or repaired by the user.
- · The cable must not be removed from the device.



Safety notes	(continued)				
	 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 device contains electrical and electronic components and is not allowed to be disposed 				
	 The device contains electrical and electronic components and is not allowed to 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.), that cannot be simulated in laboratory test or field trials. The information regarding areas of application and resistance can therefore only serve as a guideline. In case of doubt, we recommend that you definitely 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. 				
Product features					
Fields of application	The actuator is particularly suited – Wood drying – Animal breeding – Food processing – Agricultural – Swimming baths / Bathrooms – Rooftop units – General outdoor applications – Changing atmosphere	l for use in difficult conditio	ns, e.g. in the field of:		
Resistances	Test	Test standard	Testing body		
	Noxious gas tests	EN 60068-2-60	Fraunhofer Institute ICT / DE		
	Salt fog spray test	EN 60068-2-52	Fraunhofer Institute ICT / DE		
	Ammoniac test	DIN 50916-2	Fraunhofer Institute ICT / DE		
	Climatic test	IEC 60068-2-30	Trikon Solutions AG / CH		
	Disinfectants (animals)	EN 60068-2-5	Trikon Solutions AG / CH		
	(Solar radiation at ground level)	EN 60068-2-5 EN 60068-2-63	Quinel / Zug CH		
Used materials	Actuator parts	Material			
	Actuator housing	Polypropylene (PP)			
	Cable glands / hollow shaft	Polyamide (PA)			
	Connection cable	FRNC			
	Clamp / screws in general	Steel 1.4404			
	Seals	EPDM			
	Form-fit insert	Anodised aluminium			
Mode of operation	The actuator is controlled with a standard modulating signal of DC 0 10 V and travels to the position defined by the control signal. Measuring voltage U serves for the electrical display of the damper position 0 100% and as slave control signal for other actuators.				
Simple 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 with pushbutton 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 $90^{\circ \triangleleft}$. The housing cover must be removed to set the angle of rotation.				
	The housing cover must be remo	ved to set the angle of rota	ation.		

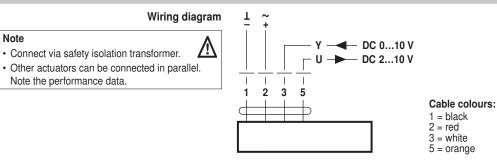


Accessories

Description	Data sheet
Auxiliary switch SA	T2 - SA
Feedback potentiometer P.A.	T2 - PA
Range controller SBG24	T2 - SBG24
Positioner SG24	T2 - SG24
Digital position indication ZAD24	T2 - ZAD24
Various form-fit inserts	T2 - Z-SM
	Auxiliary switch SA Feedback potentiometer PA Range controller SBG24 Positioner SG24 Digital position indication ZAD24

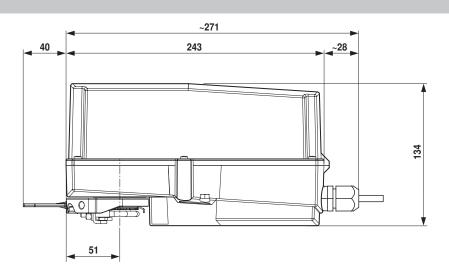
Electrical installation

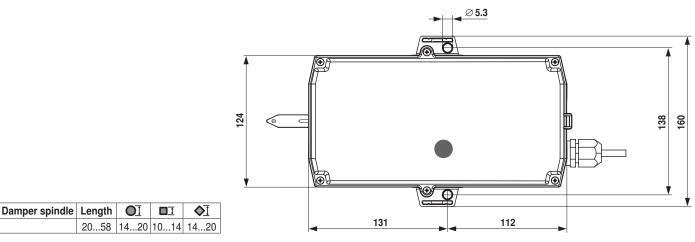
Note



Dimensions [mm]

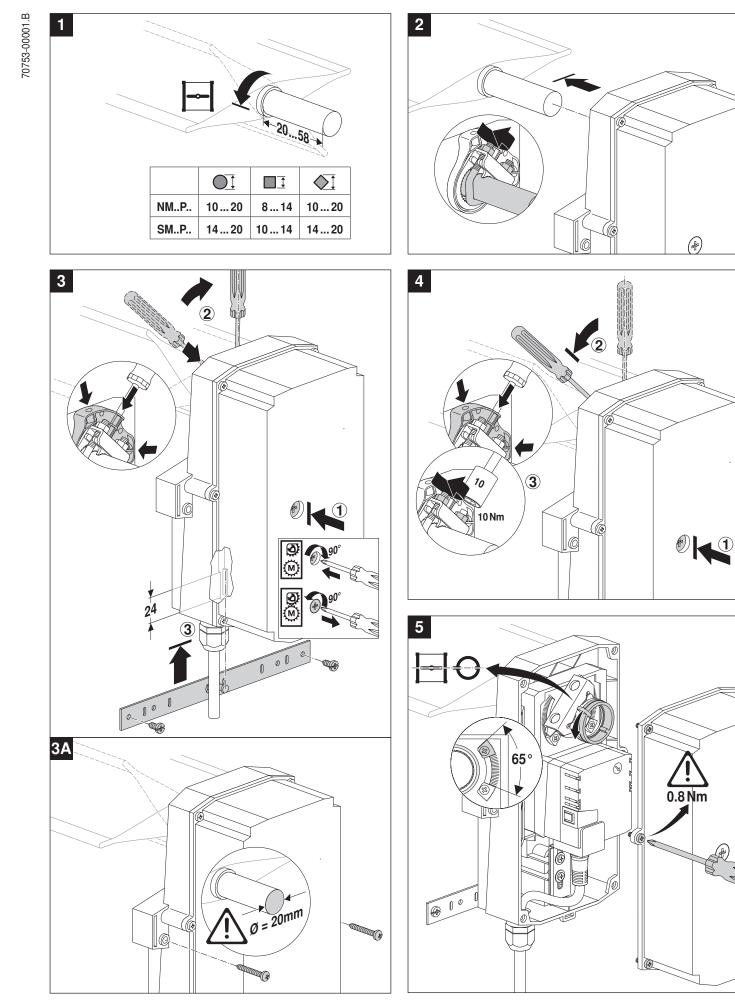
Dimensional drawings





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