OpenAir™

Linear damper actuator GHD131.2E

- **Force 150 N**
- **Nominal voltage AC 24 V**
- **3-point control signal**

Use

Linear drive actuator to adjust air volume controllers, ceiling outlets and dampers in VAV systems as well as to adjust dampers in induction units and mixing boxes.

Functions

The actuator is suitable for use in conjunction with controllers providing a proportional three-point AC 24 V output signal or for open/close control with positioning time control. The stroke direction of the threaded spindle is determined by the terminal connections on the motor.

Type summary

	Without spindle (standard)	With spindle 130 mm	With spindle 180 mm	With spindle 230 mm	With spindle 300 mm	Without spindle (Service or replacement)
Type	**GHD131.2E**	**GHD131.2E/130**	**GHD131.2E/180**	**GHD131.2E/230**	**GHD131.2E/300**	**GHD131.2E/S**
Packing size / pce	**10**	**5**	**5**	**5**	**5**	**1**

Ordering

The GHD131.2E/... linear drive actuator and the Z/C… assembly kit must be ordered separately.
The threaded spindle is normally supplied as part of the assembly kit.
When ordering, please specify the quantity, product name and type code.

Example: **10 linear actuators GHD131.2E** and **10 assembly kits, type Z/C27**

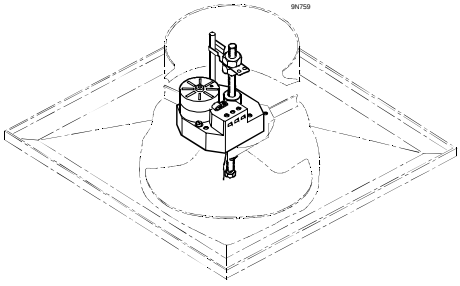
Mechanical design

The rotary action of the reversible synchronous motor is converted via a drive gear into the linear movement of the spindle. The drive gear is mounted between two metal plates protected from dust by a plastic sleeve. The drive gear incorporates a magnetic overload clutch, so that end switches, and the associated time-consuming adjustments, are not required. The clutch protects the actuator for short periods against overload. However, operating the actuator in a continuously stalled condition will considerably reduce its service life. This must be avoided by suitable control provisions (e.g. positioning time control).
Z/C… assembly kits are available for the various brands of dampers and air outlets.

Mounting instructions

The actuators may be mounted in any orientation. The spindle must be able to travel freely in and out, and care must be taken to eliminate any lateral and/or twisting force.

Where necessary, a swivel or similar mechanical coupling (e.g. a universal swivel joint) must be used. Unsuitable mounting can affect the positioning speed.



Example:
GHD131.2E linear actuator in a ceiling outlet

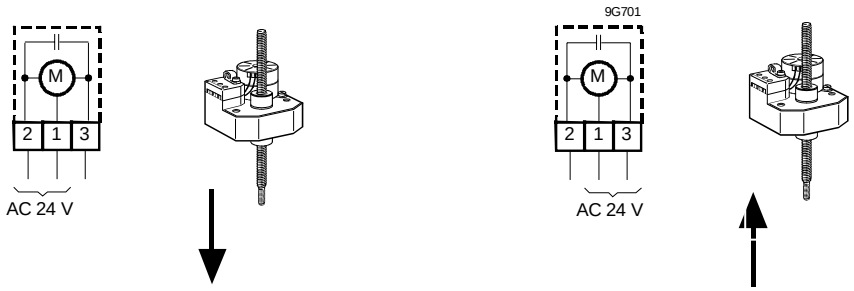
Maintenance notice

The GHD131.2E actuator itself requires no maintenance. Care should be taken, however, to ensure that the spindle always moves freely. It should be cleaned and greased periodically as necessary.

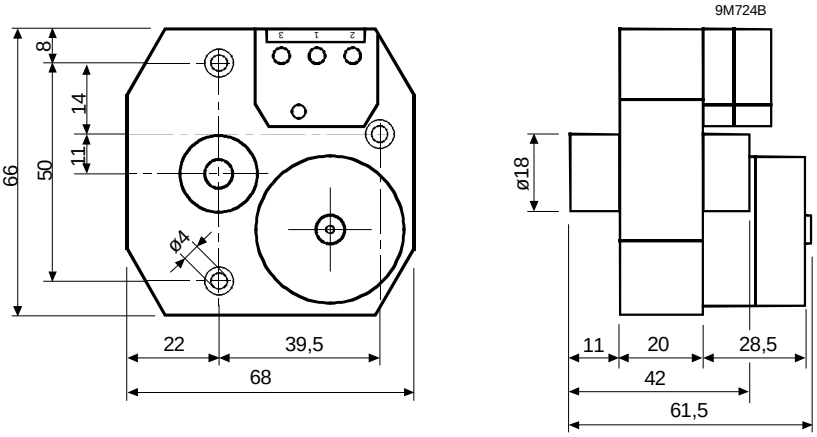
Technical data

Power supply AC 24 V (SELV/PELV)	Operating voltage, frequency	AC 24 V ± 20 %, 50/60 Hz
	Power consumption	1,5 VA
	Positioning speed	at 50 Hz = 28 mm/min. at 60 Hz = 33 mm/min.
	Control signal	3-point
	Force for pull and push	150 N (nominal at 20 °C) max. force at end-stops 200 N
	Max. stroke	Depends on application
	Noise level	< 35 dB(A)
	Maintenance	No maintenance required
	Operating life	> 50 000 Zyklen at ± 50 mm
	Ambient temperatures	
	– Operation	–20 …+50°C
	– Storage	–30 …+70°C
Product standards	**CE** –conformity to	
	– EMC directive	89/336 / EEC
	– Low-voltage directive	73/23 / EEC
	Protection	IP 20 (IEC529)
	Protection class	III
	Weight (including packaging)	0,23 kg
	Dimensions	66x68x61,5 (without spindle)

Connection terminals



Dimensions



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