

GRUNER ACTUATORS

BETTER EQUIPPED FOR FIRE PROTECTION AND SMOKE PROTECTION

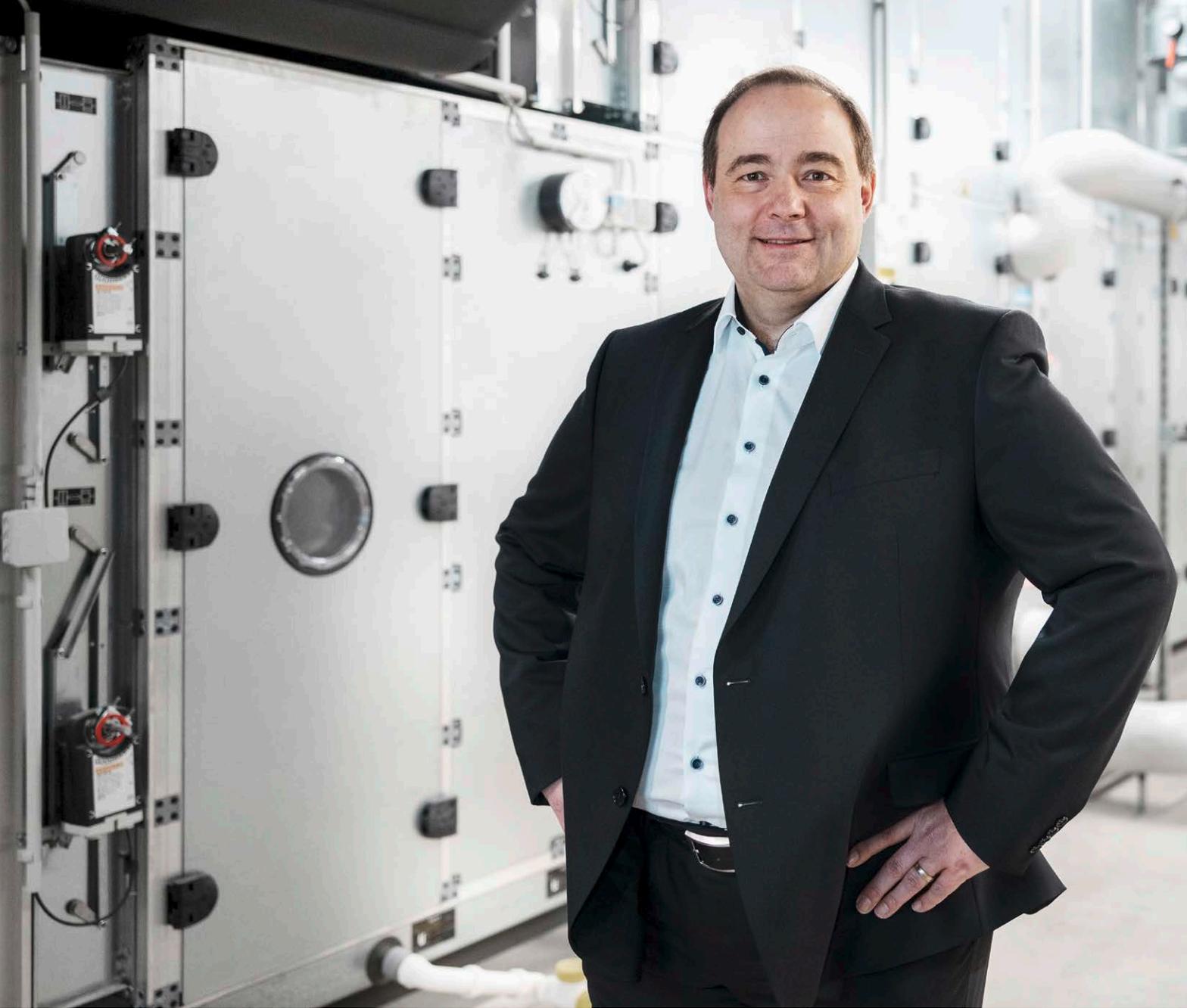


PERFECTLY PREPARED FOR EMERGENCY SITUATIONS



MAXIMUM SAFETY WITHOUT ADAPTERS

- › Manual adjustment without separate power supply
- › Spring preload for full torque across the entire 95° angle of rotation
- › CE according to EMC directive 2004/108/EC and low-voltage directive 2006/95/EC
- › Optimum economy through power-saving hold function in limit position: 12 mm standard, 10 mm optional
- › Other options: position indication via potential-free auxiliary switches, temperature fuse for duct installation, etc.



GRUNER CANNOT ELIMINATE
THE CAUSES OF A FIRE.

**BUT OUR ACTUATORS CAN CLOSE
FIRE DAMPERS FASTER AND MORE
RELIABLY.**

MADE-TO-MEASURE SAFETY

Gruner spring return actuators and smoke protection actuators cover a broad range of torques. They ensure that fire dampers function impeccably, even under extreme conditions. With the types in the 340, 360, 342 and 362 series, our OEM partners can cover all European needs for fire protection and safety technology in buildings.

BLDC TECHNOLOGY

As always at Gruner, maximum service life and reliability are significant design criteria. Whether for 24, 120 or 240V AC/DC: The design of our actuators guarantees at least 60,000 operating cycles for springs and motors. Integrated BLDC technology (brushless direct current) reduces wear by having fewer mechanical components. All critical parts are made of steel to provide the required level of safety – ensuring that torque capacity remains the same even at high temperatures.



SAFETY FIRST – THE 300 SERIES OF ACTUATORS

The 300 series of Gruner actuators covers a vast array of requirements and can cope reliably with ambient temperatures of up to 100 °C during continuous operation. The extended portfolio offers appropriate solutions for a wide range of torques and for all commonly used damper sizes.

																						
	Fire protection				Fire protection				Smoke protection		Fire protection		Smoke protection		Fire protection		Smoke protection					
Dimensions	150 x 75 x 70 mm								193 x 96 x 60 mm				193 x 96 x 70 mm									
Type	340-024D-03-S2	340TA-024D-03-S2	340-230D-03-S2	340TA-230D-03-S2	340-024-05-S2	340TA-024-05-S2	340-230-05-S2	340TA-230-05-S2	342-024-15-S2	342-230-15-S2	360-024-12-S2	360TA-024-12-S2	360-230-12-S2	360TA-230-12-S2	362-024-20-S2	362-230-20-S2	360-024-20-S2	360TA-024-20-S2	360-230-20-S2	360TA-230-20-S2	363-024-40-S2	363-230-40-S2
Torque (motor)	3 Nm	3 Nm	3 Nm	3 Nm	7 Nm	7 Nm	7 Nm	7 Nm	15 Nm	15 Nm	18 Nm	18 Nm	18 Nm	18 Nm	20 Nm	20 Nm	20 Nm	20 Nm	20 Nm	20 Nm	40 Nm	40 Nm
Torque (spring)	3 Nm	3 Nm	3 Nm	3 Nm	5 Nm	5 Nm	5 Nm	5 Nm			12 Nm	12 Nm	12 Nm	12 Nm			20 Nm	20 Nm	20 Nm	20 Nm		
2-point	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Rotation angle [°]	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Power supply																						
24 VAC/DC	•	•			•	•			•		•	•			•		•	•			•	
230 VAC/DC			•	•			•	•		•			•	•		•			•	•		•
Options																						
Temperature fuse for duct installation (72 °C)		•		•		•		•				•		•				•		•		
Temperature fuse for duct installation (95 °C)		◦		◦		◦		◦				◦		◦				◦		◦		
Connection for smoke detector		◦		◦		◦		◦	◦	◦		◦		◦	◦	◦		◦		◦	◦	◦
Auxiliary switches *	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

• included

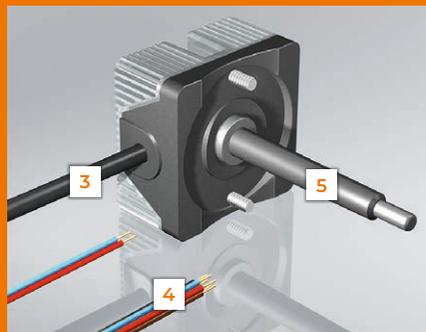
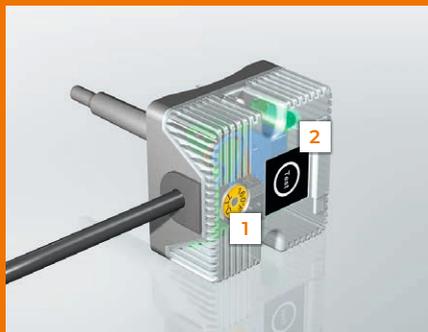
◦ available as options

* 2 x SPDT at 5° and 80° (-5°...+95° rotational range)

THERMO-ELECTRICAL TRIGGERS

WITH CHECK BUTTON AND MAXIMUM ROBUSTNESS (IN ACCORDANCE WITH DIN EN 60691)

Two LEDs – one red, one green – indicate the status of drive and damper. Green signals 'Opened and ready for operation'; red 'Closed by pressing button'. If neither of these diodes lights up, there is no operating voltage.



1. Temperature indicator for greater functional reliability
2. Functional indicator and test button for greater operational reliability
3. Halogen-free cables
4. Permanently set limit switches
5. Monitoring of the internal and external temperatures of ducts

EASE OF INSTALLATION

Identical spacing makes Gruner's 300 series actuators particularly easy to install. The folding connection for smoke detectors enables them to be installed individually. Another user-friendly feature is the duct installation option. Ease of access means that the temperature trigger is easy to replace when activated accidentally.

EASE OF INSPECTION

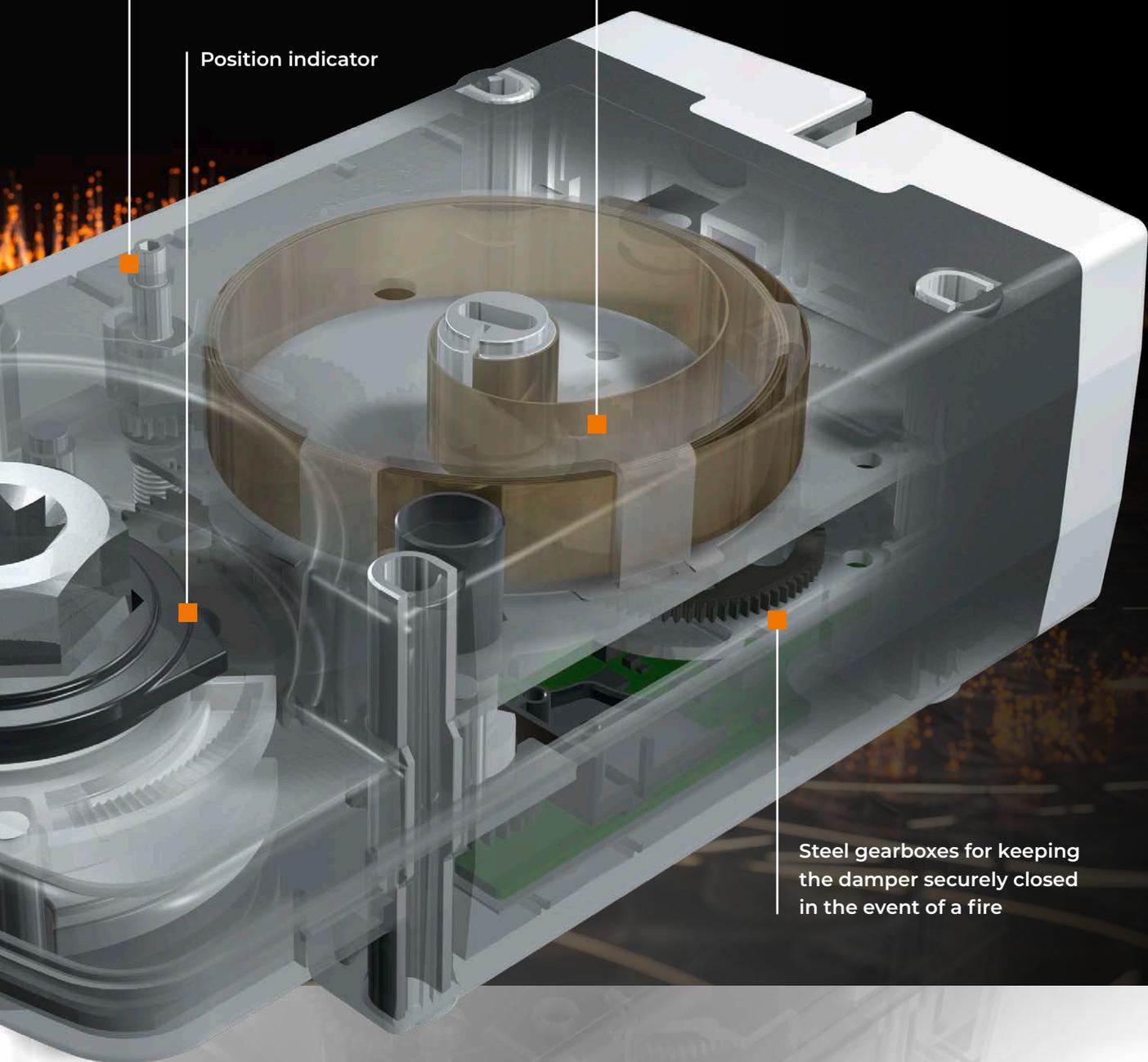
Regular inspection and testing where the dampers are closed and opened can be performed centrally via Modbus from the control panel or switch cabinet. For example, the angular position of the damper is displayed in the system and the operator receives feedback on the opening and closing of the damper blade. Test sequences can also be created for the motor, which then run independently.

Simple manual winding with integrated detent (releases automatically after operating voltage is applied)

- Heat-resistant
- 120,000 cycles
- Preload in 0° position for ease of installation

Position indicator

Steel gearboxes for keeping the damper securely closed in the event of a fire



GRUNER AG, headquartered in Wehingen with around 1,500 employees, based in Germany, Tunisia, Serbia and India, is a major manufacturer of actuators, relays and solenoids. Our system solutions for building management, the automotive industry and medical technology are in demand around the world, featuring compelling innovation and quality.

GRUNER AG

Bürglestraße 15-17 | 78564 Wehingen | Germany

T +49 7426 948-0 | F +49 7426 948-200

info@gruner.de | www.gruner.de