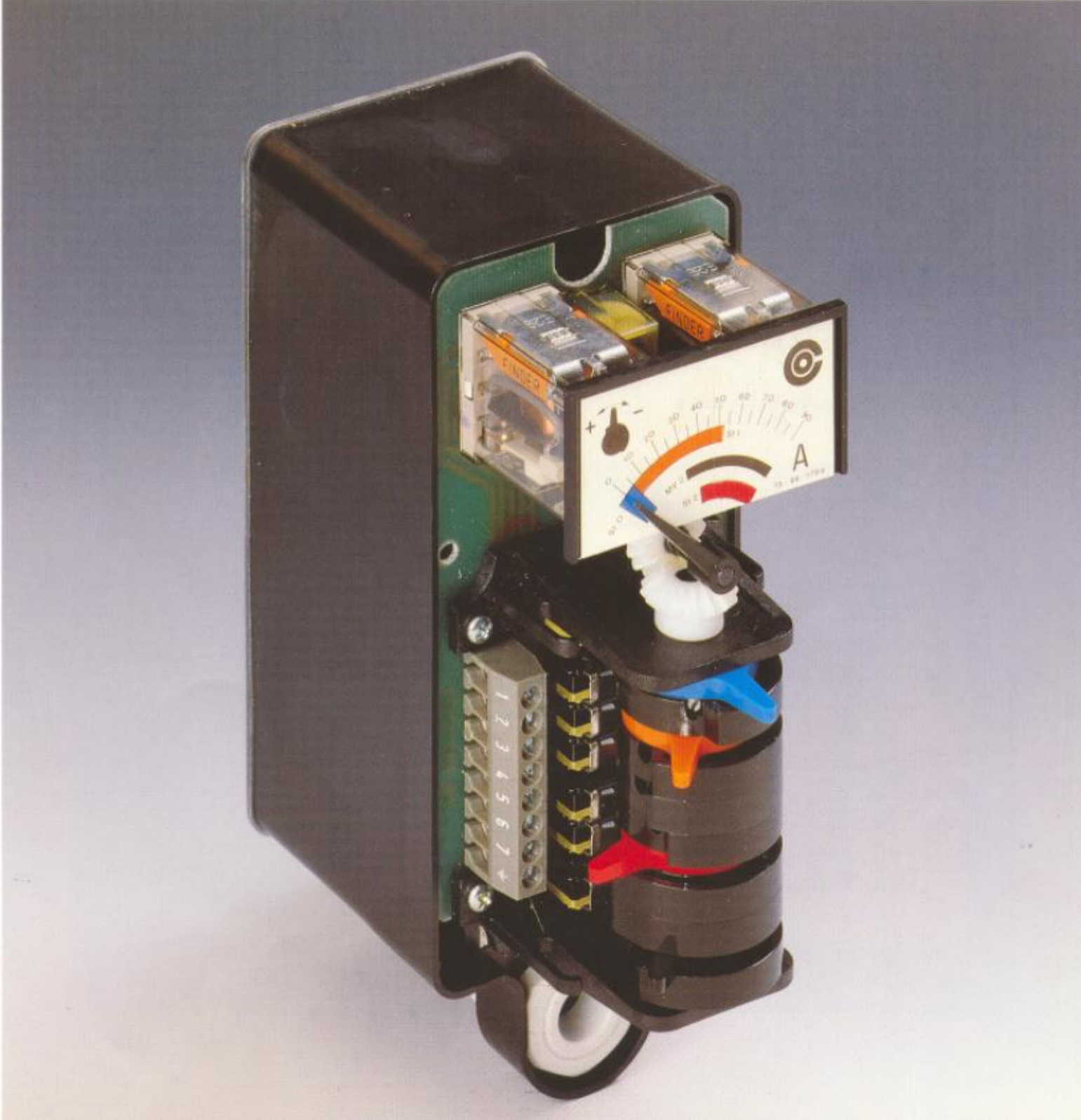
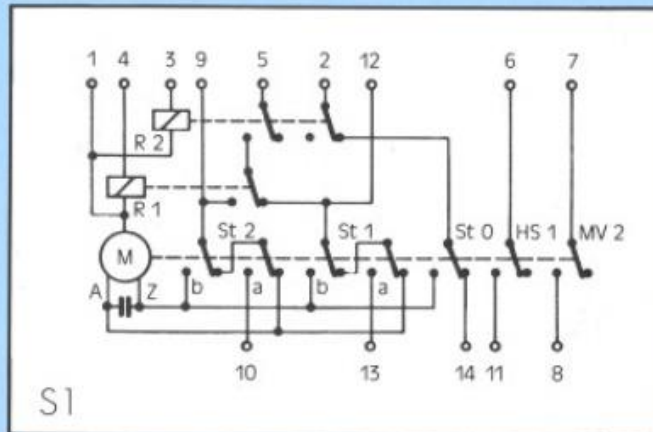


# Air Damper Actuators

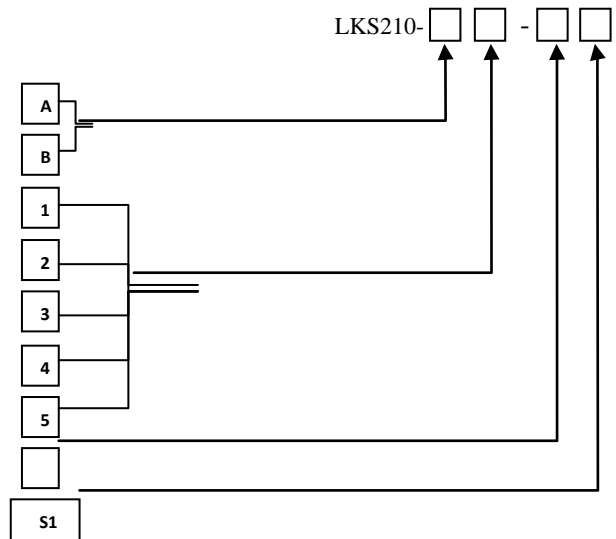
## Series LKS 210





**How to order: Please enter the relevant letter or number in the boxes:**

1. Rotating direction  
clockwise [right]  
counter—clockwise [left]
2. Shape at the PTO shaft  
internal square socket head 8x8,  
in stage 0  $\diamond$   
half-round hole  $\phi$  10, direction of rotation A  
direction of rotation B  
shaft  $\phi$  10, free
3. Regulating time for 90° in seconds [5, 15 or 25]
4. Circuit diagram 1

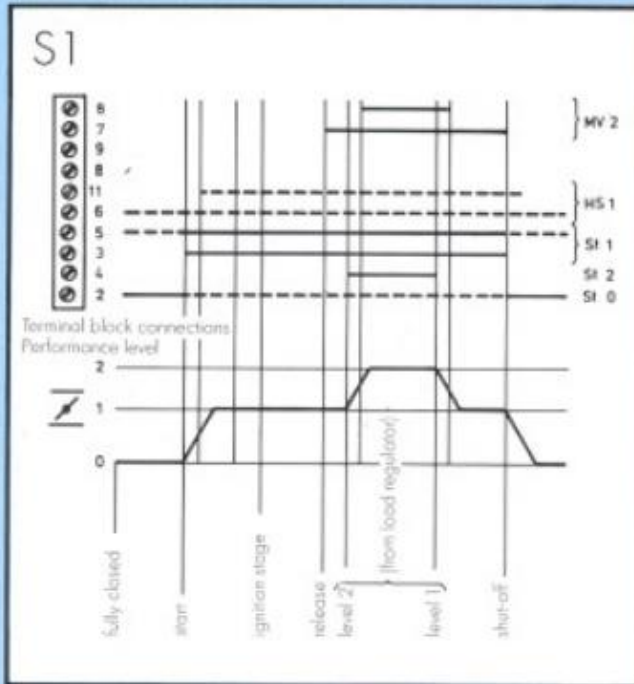


All specifications refer to the actuator when viewed from the back [drawing A]

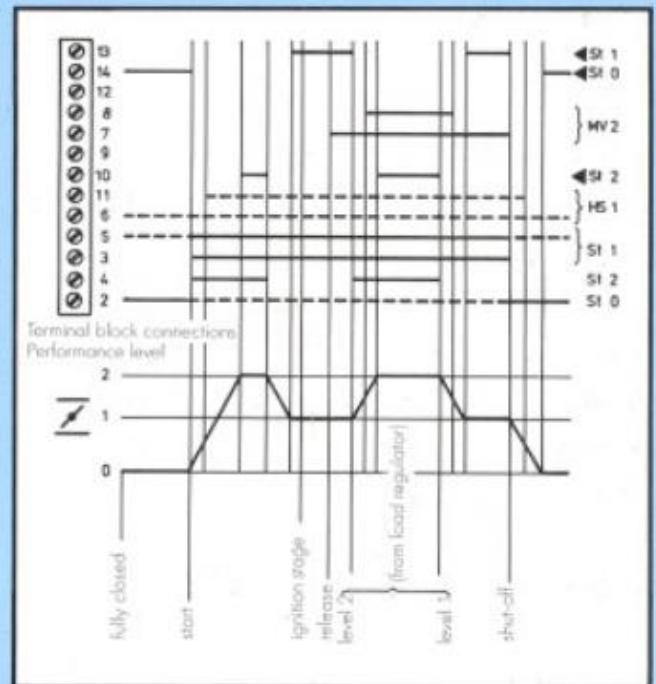
Example: LKS 210, rotating clockwise, square socket. 5s regulating time, circuit diagram S 1 : LKS 210 - {A2-5s 1}

Models made to customer's specifications upon request

# Series LKS 210

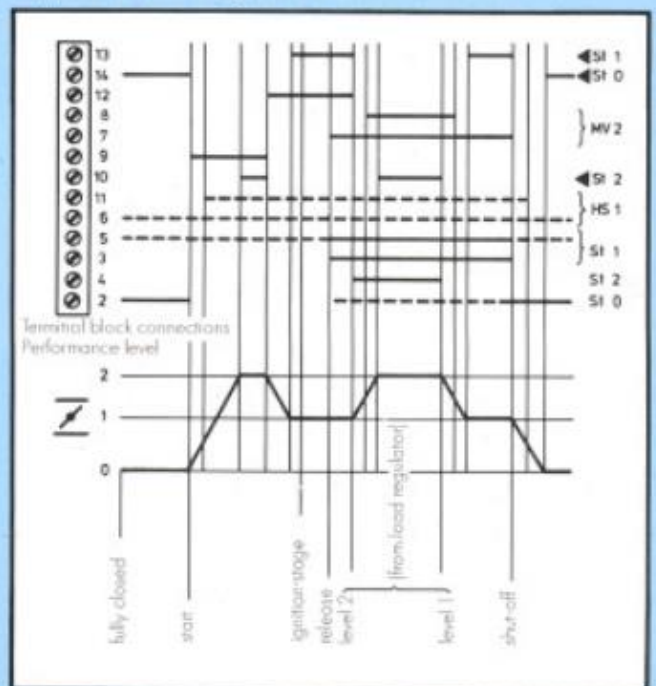


Δ pre-air in stage 1



Δ pre-air in stage 2

▽ pre-air in stage 2 direct connection



- phase included
- - - phase available upon request
- ◀ status indicator

# Air Damper Actuators

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## For single or dentist-stage burners with fully closing damper

The air damper actuator LKS 210 is intended for use in double-stage oil- and gas burners, with a fully closing damper. The drive unit is comprised of a synchronous motor coupled to reducing gears, the last stage of which is a worm gear. Due to the self-locking characteristic of the worm, a sufficient locking moment is available for the complete range of applications.

The drive unit is permanently lubricated and totally maintenance-free.

## Air damper infinitely adjustable

The air damper may be regulated through a range of 90° and cams allow it to be adjusted in an infinite number of ways. This adjustment is made by way of colour-coded levers. These colour codes represent the respective performance level of the burner; blue for fully closing damper; orange for low performance, red for high performance. This colour-code is also to be found on the relevant circuit diagram and on the setting dial.

Due to connected auxiliary switches, the drive can rotate in both directions, corresponding to the lever settings. Valve release is carried out by the safety switches HS 1 [connected to stage 1] and MV 2 the latter being separately adjustable [black lever].

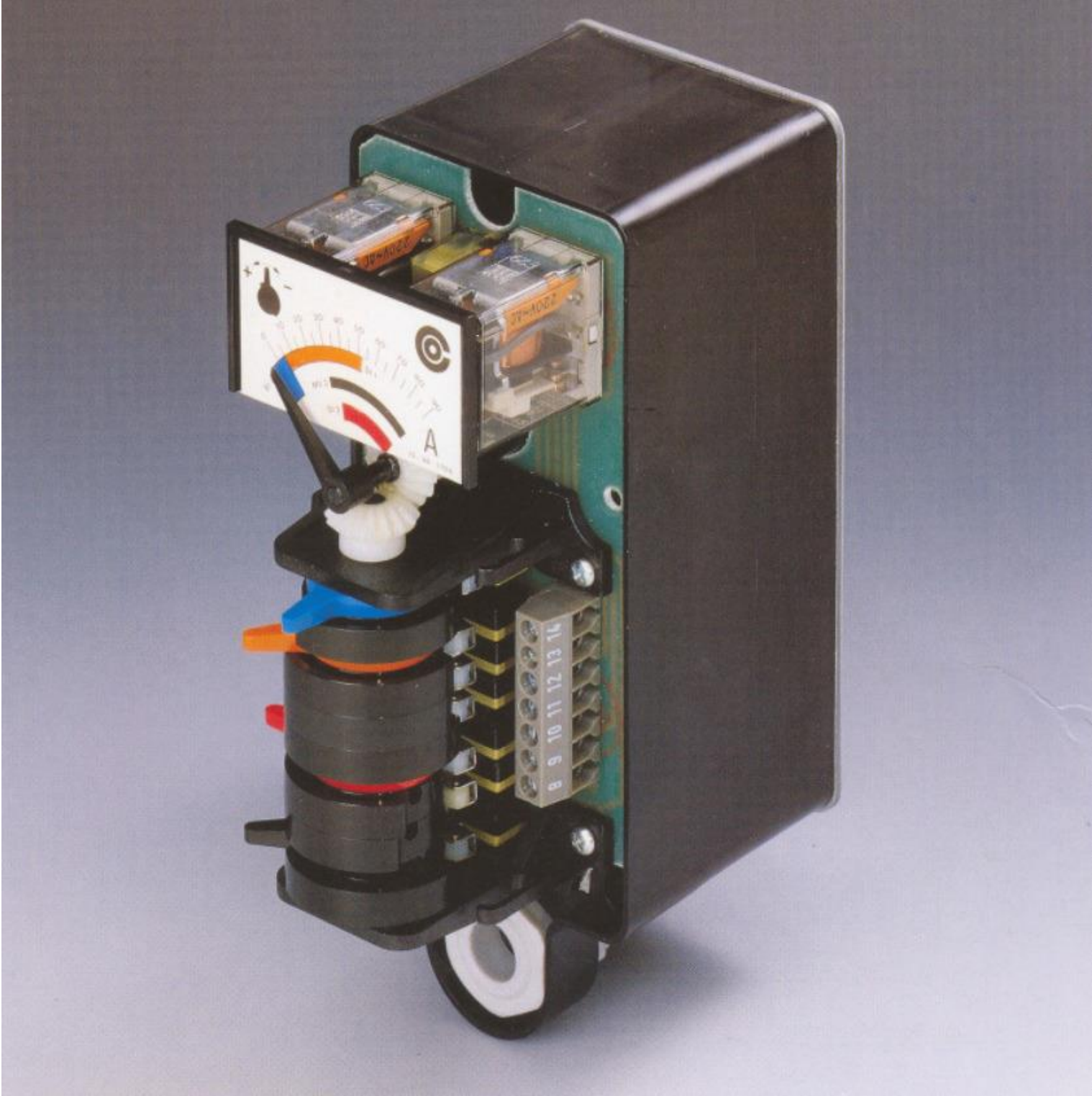
The position of the air damper at any given time is indicated by means of a pointer along a scale.

## Connections

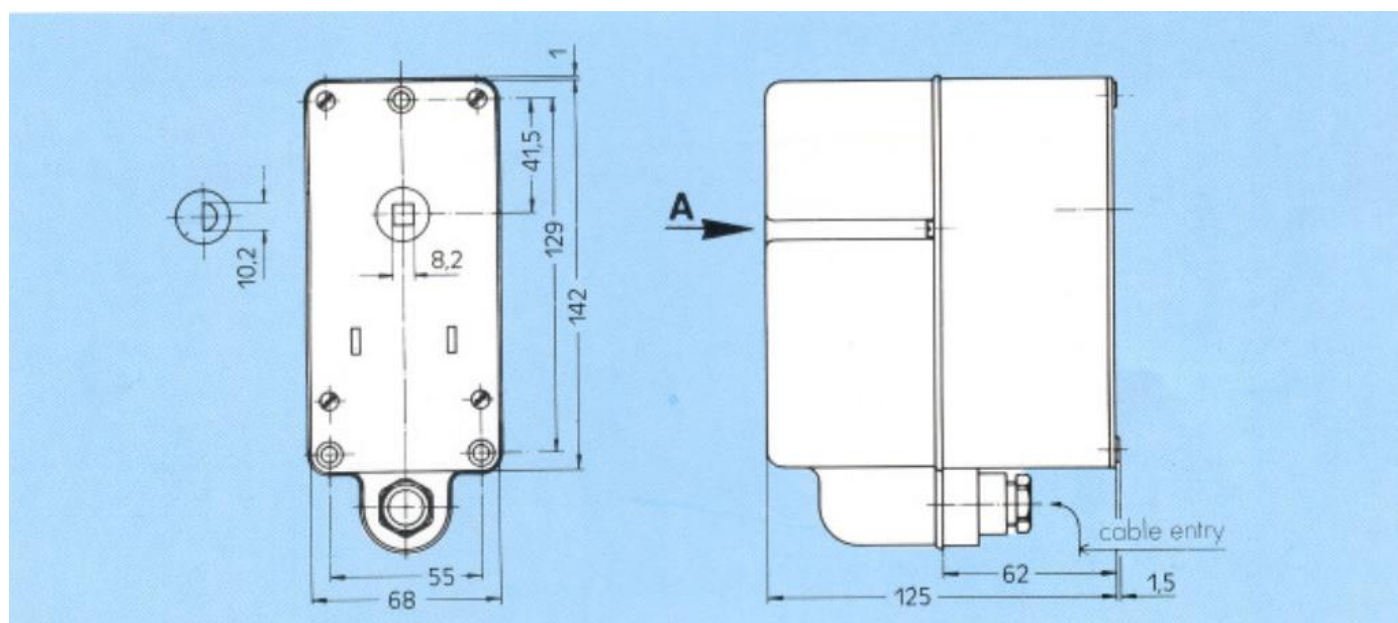
All the electrical components are fixed on a printed board. Two terminal blocks are available for external connection. The PG 11 cable entry is centrally and easily accessible from all sides. Connection to the air damper axle can either be formed via an internal square socket head, a round nut or a tree shaft, depending on the matching requirements.

Three fastening holes [M 5] are necessary for fitting the actuator on the burner's housing.

# Series LKS 210



# Technical Data



Voltage	single-phase 230V~,50Hz		
Power consumption	c.4VA		
Position:	0...90°,infinitely adjustable via spindles Stage 0:blue,fully closed Stage 1:orange,simultaneously-rotating follow-up switch and a dry Pilot switch{HS 1} Stage 2:red, one simultaneously-rotating pilot switch MV 2: black		
Regulating time for 90°	5s	15s	25s
Torque	15Nm	3Nm	3Nm
Locking moment	via self-locking worm gear		
Monitoring of the air damper position	simultaneously rotating pointer		
Housing	synthetic material,black,non-combustible,self-extinguishing		
Cable entry	1xPG 11		
Electrical connection	2x7 pole terminal blocks, I earth connector		
Mounting	with 3xM5 screws,e.g.M5x50 DIN 912		
PTO	either internal square socket head 8x8, 20mm half-round hole $\phi$ 10mm,25mm deeb shaft $\phi$ 10mm		
Type of protection	IP 44 DIN 40 050		
Ambient temperature	-10 to + 60°C		
Weight	1 kg		
Available standard cable	10cores,each 0,5mm <sup>2</sup> ,1,2m long/Part number K 10F 1200		