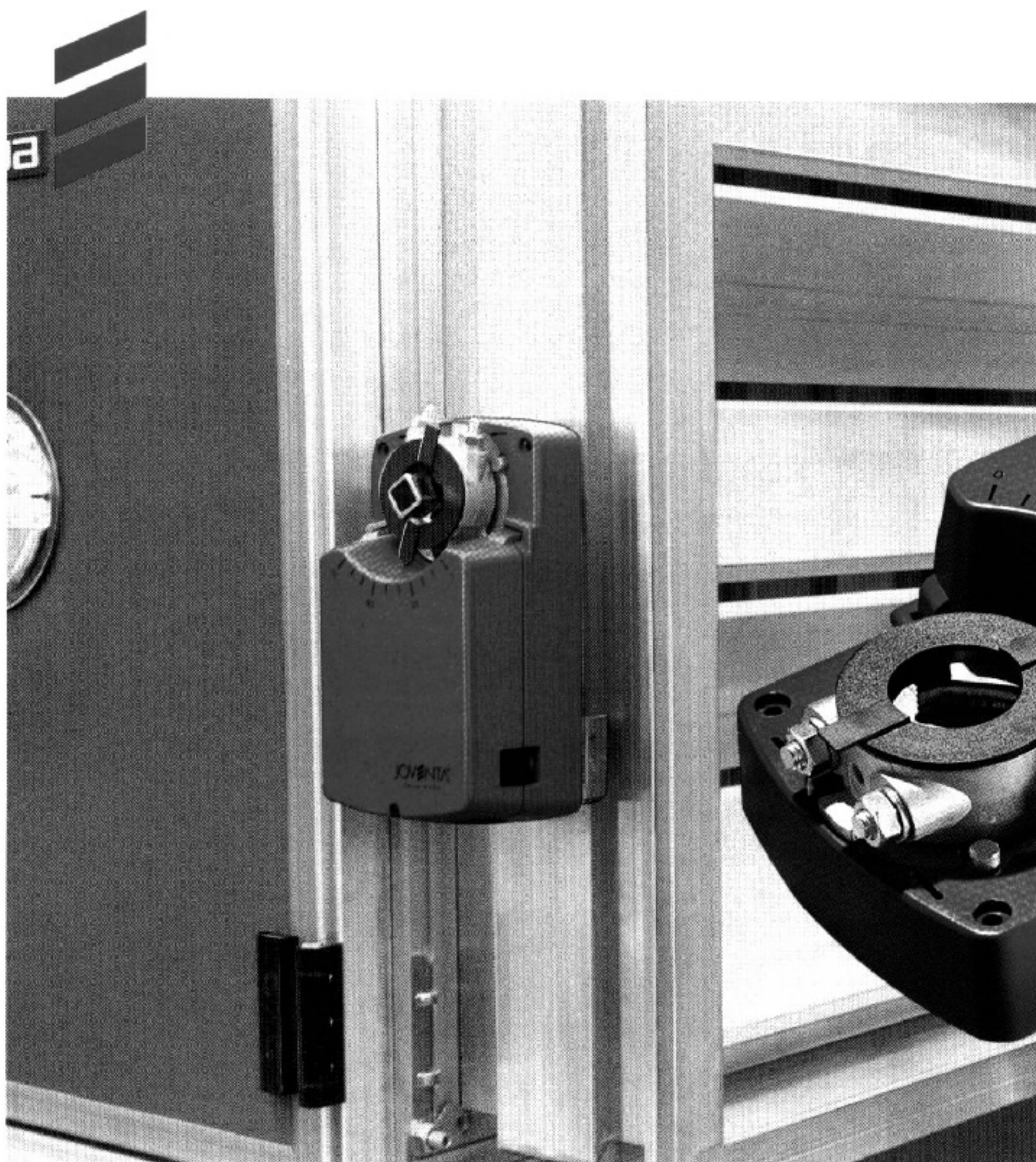


DM...1.3(S) The new generation of MODULATING actuators



**Universal, accurate
and reliable!**

The DM...1.3(S) modulating actuators from JOVENTA® are especially suitable for the local or remote operation of air dampers by means of controllers or positioners employing a control signal of 0...20 V phasecut and 0...135 Ω. An output signal of 0(2)...10 V also allows the signalling of position and/or follow-up control. A particular feature of the actuators are their low power consumption. In the holding positions they only need to draw sufficient current for the electronic circuitry. The universal adapter, which is also provides angle-of-rotation limiting and position indication, enables the actuator to be mounted on round spindles up to 20 mm in diameter and also square spindles up to 16 mm.

Type designations/Specifications/Technical data

DM1.3	Actuator modulating 24 V ~
DM1.3 (S)	Actuator modulating 24 V ~ with two adjustable auxiliary switches

	DM1.3(S)
Power supply	24 V AC ±20%
Frequency	50...60 Hz
Power consumption	4 W
For wire sizing	7,5 VA
Min. torque (Nm)	16
Max. damper area (m ²)	4
Angle of rotation	90° (93° mech.)
Running time ca. (sec)	80
Protection class	II
Degree of protection	IP 44, IP 54 with PG 11 cable gland
Auxiliary-contact rating	3 (1,5) A 24 V
Ambient temperatur range	-20 °C...50 °C
Max. sound power level	45 dB (A)
Weight	1100 g

Subject to technical modifications without notice!

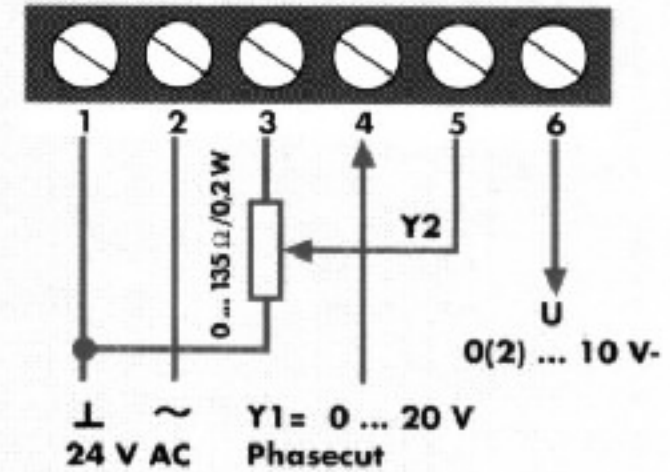
DM...1.3(S) Actuators with winning ways!



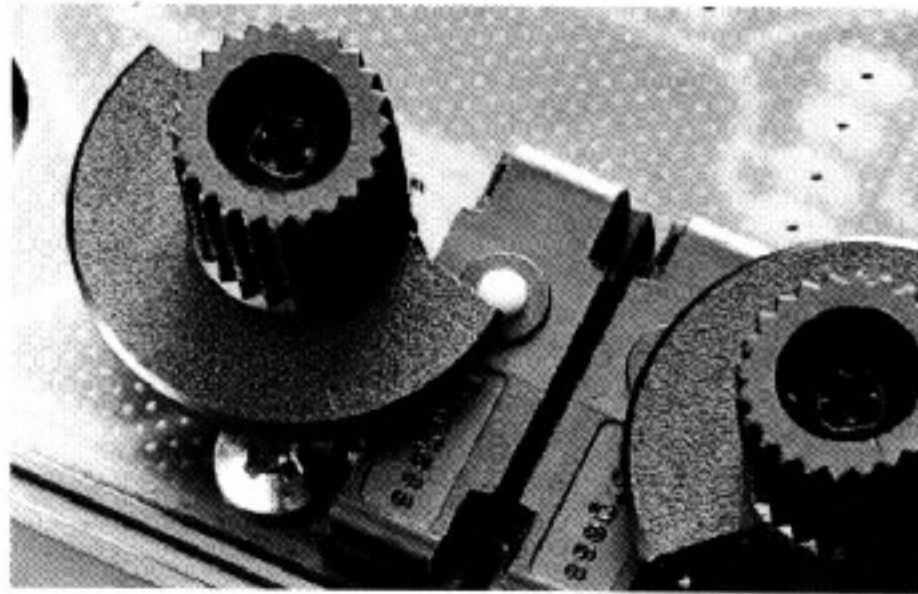
Wiring diagramm/Controller

The actuator DM1.3(S) are suitable for controllers or positioners employing a control signal of 0...20 V phasecut and 0...135 Ω

Control signal Y1	0...20 V ph.
Operating range	2...10 V
Input resistance Y1	8 kΩ
Control signal Y2	0...135 Ω
Operating range	0...10 V
Input resistance Y2	500 Ω
Control signal U	0(2)...10 V-
Output resistance	>50 kΩ



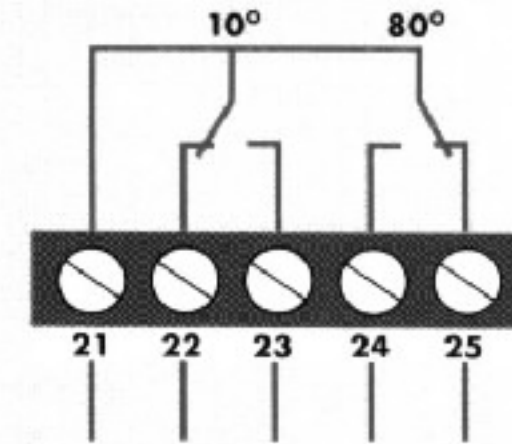
Auxiliary switch adjustment



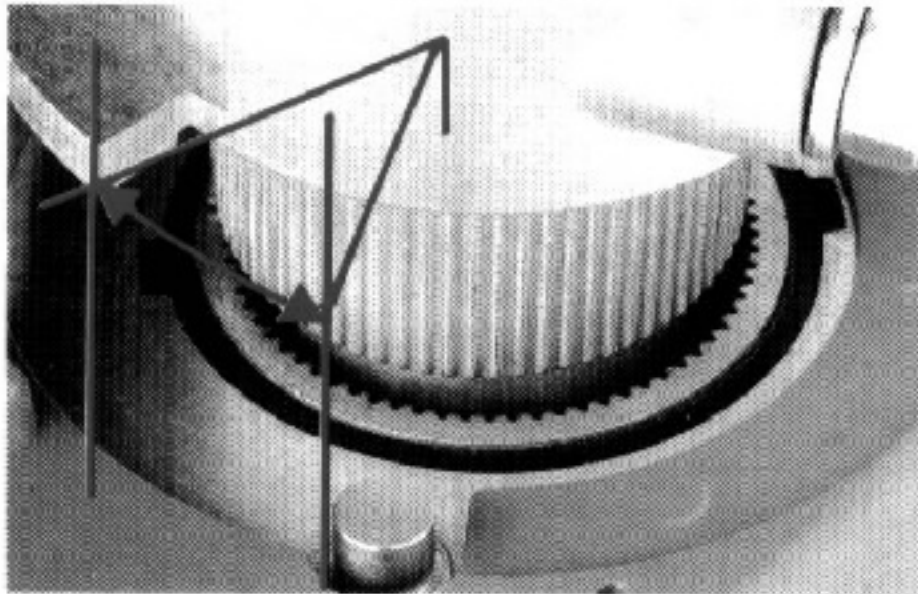
The built in auxiliary switches can be used for signalling end positions or for performing switching functions at any angle between 0° and 90°.

(Factory setting 10° and 80°).

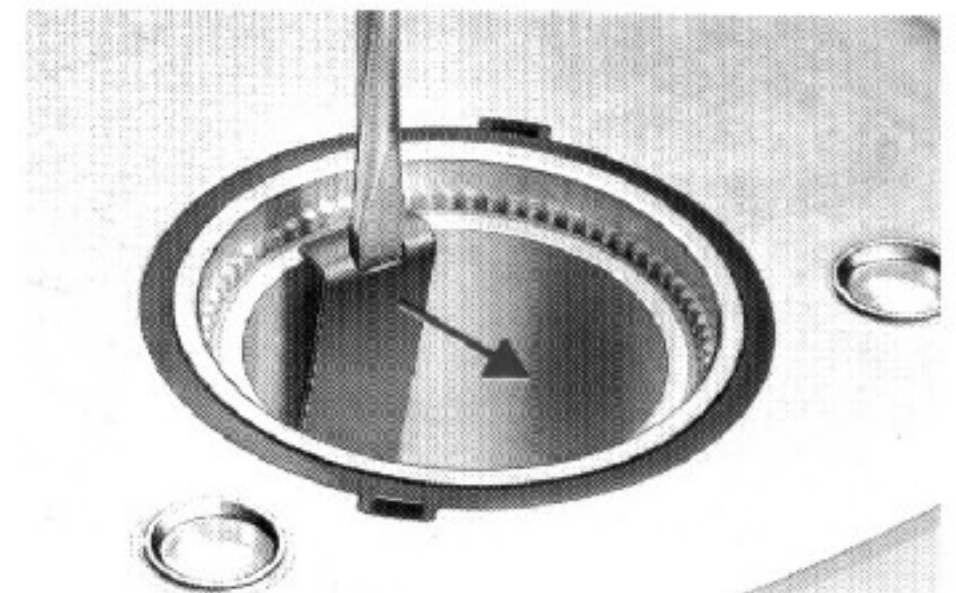
Auxiliary switches (DM1.3S)



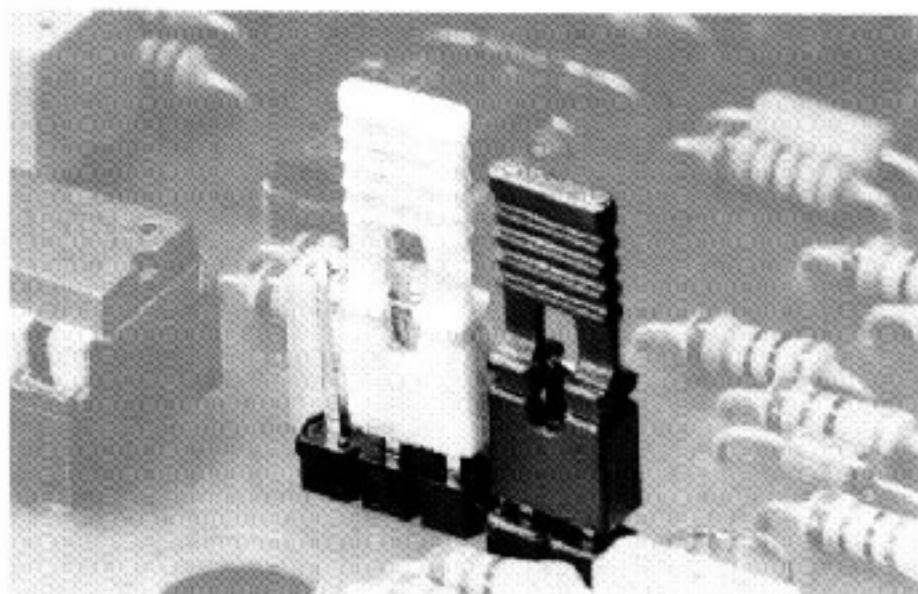
Angle of rotation limiting



The angle of rotation or working range can be limited mechanically by simply repositioning the adapter in 5°-steps. The adapter is released by pressing the locking clip on the underside of the actuator.



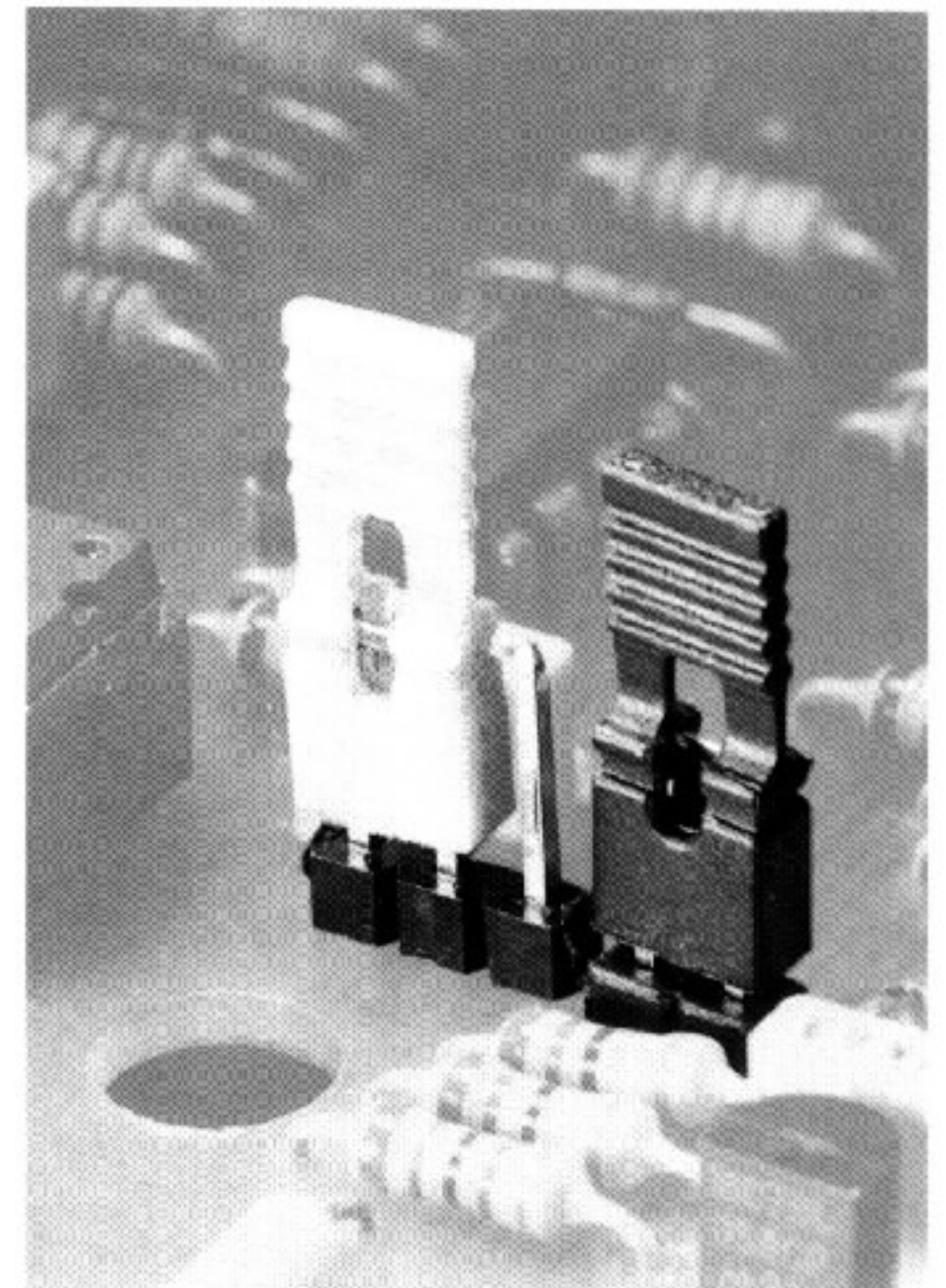
Direction of rotation



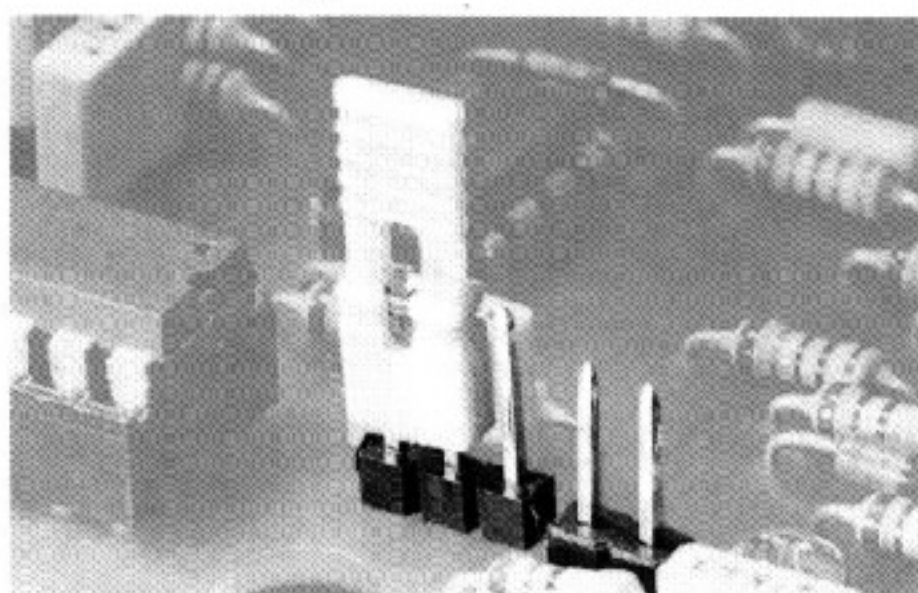
The direction of rotation of the actuator can be reversed by moving **the three pin plug**. At the same time the output signal is reversed as well.

For functional reasons the motor plug must not be reversed!

Factory setting



Control signal U. selection



The control signals are set a 0...10 V- (for Y2, 0...135 Ω). By removing **the two pin plug** the control signal are changed to 2...10 V- (for Y1, 0...20 V phasecut). The control signal U adjust automatically the electrical working range.