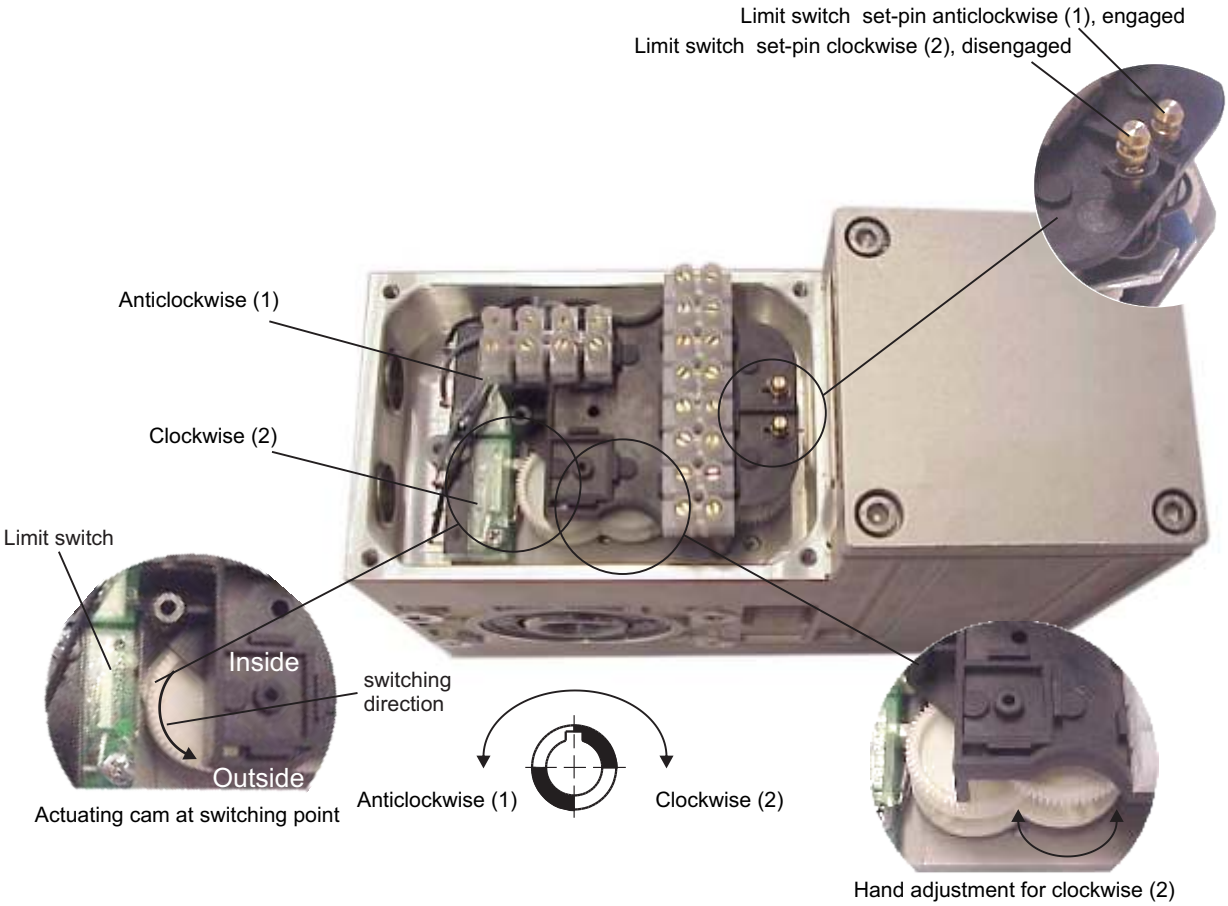
(Translation)

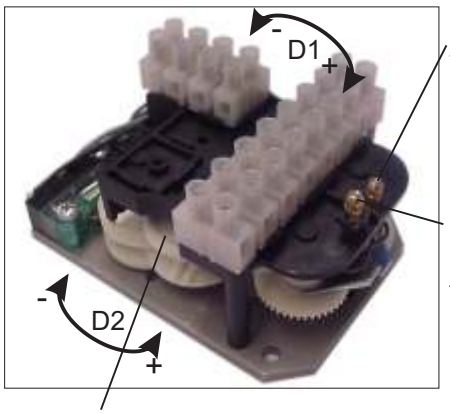
Adjustment instructions

Framo Morat GmbH & Co. KG
Höchst 7 • D-79871 Eisenbach
Tel.: +49 (0) 7657 / 88-0
Fax: +49 (0) 7657 / 88-333
www.framo-morat.com
info@framo-morat.com

Adjustment instructions

The COMPACTA MR6 switch control comprises a secondary gearing assembly with 2 snap-action forced contact opening (NC) microswitches and an optional potentiometer.
The gearmotor is supplied with the limit switch drive disengaged i.e. between the main gears and the switch assembly there is no mechanical connection. The limit switch assembly is factory set so that when engaged the limit switch contacts have opened.
Setting the limit switches is very simple. Run the gearmotor to the first required position press down the set-pin for the appropriate direction of rotation (anticlockwise (1) or clockwise (2) as shown below). Then run the gearmotor to the other position press and engage the set-pin. Setting complete. If a correction is required pull back and disengage the set-pin and drive to the new position then again press down. For fine adjustment pull back the set pin and use the finger access hole at either side to move the gear wheel driving the cam to the relevant switch.





Engaged (pin depressed)
This is operating condition

Disengaged (pin out)
In this position the hand
Adjustment can be made

The cam of the assembly operates the switch

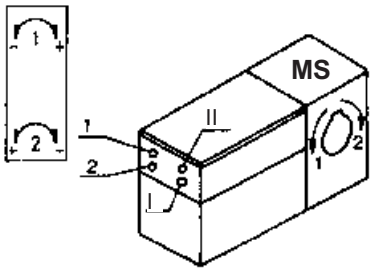
Option with addit. potentiometer

Adjustment Instructions for built-in limit switches

CAUTION:
Please follow these instructions carefully! Connection and adjustment should only be carried out by a skilled technician!
For any work carried out on an open terminal box, it is important to ensure that your working area is voltage free and power cannot be turned on accidentally. The gear motor should not be connected to a power supply before you have ensured that the earth connection is made. Check that the motor voltage (refer to name plate) is correct for the given supply.

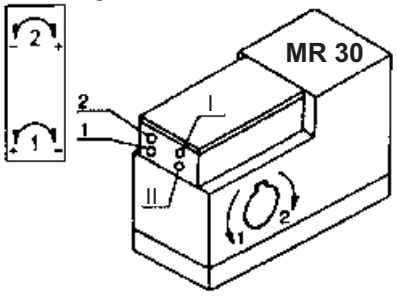
Adhesive descriptive labels are fixed to the COMPACTA unit adjacent to the adjustment screws for the limit switches.

Switch range

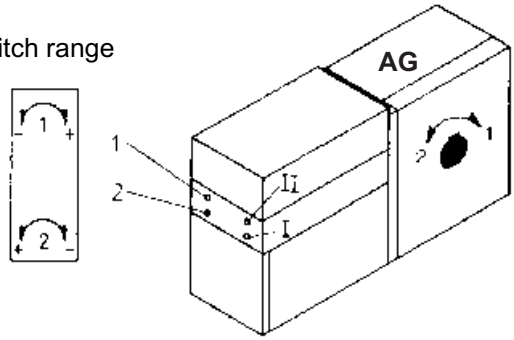


Adjustment screw 1 for rotation direction 1
Adjustment screw 2 for rotation direction 2

Switch range



Switch range



1 and 2 = adjustment screws for end-limit switches

I and II = Adjustable screws for additional (run-through) limit switches for intermediate position control or external signal emission as for Version 3 - e.g. mid-position from each start position.

Terminal Connections
1. Connect terminal block in accordance with selected switch control Version (1, 2, 3 etc.)
Ensure that operating end limit switches and safety limit switches as well as motor thermal protection are properly connected (or have not been inadvertently disconnected). **Failure to do so could damage the limit switch system**. External stop-contact (opened) can be connected after removing the cable bridge between terminals 9 and 10.

Contacts (closed) for clockwise/counter-clockwise running are be connected between terminals 10 and 12 respectively 10 and 15. Safety sensors (e.g. Load cell, torque sensor, safety switch) are to be connected for the appropriate direction of rotation after removing the bridge between terminals 11 and 12 or between 14 and 15.

2. Changing the direction of rotation
Push start button
Note: If drive remains stationary and does not re-start then the control does not correspond with the direction of rotation. The 2 phases are to be interchanged, so that the direction of rotation indicated by the labels - numbers 1 or 2, are the same. The safety limit switch which has opened the circuit can be closed by screwing back the limit switch assembly.The drive should now operate correctly in both directions!
The adjustment of the limit switch control position can now be completed.

3. Switch range
The limit switches are works test-bench adjusted for the maximum range specified in the order. A reserve stroke to allow the "release" of the safety cut-out switch when direction of rotation is at first incorrect is however, available (as described under (2) above).

Framo Morat GmbH & Co. KG
Höchst 7 • D-79871 Eisenbach
Tel.: +49 (0) 7657 / 88-0
Fax: +49 (0) 7657 / 88-333
www.framo-morat.com
info@framo-morat.com