

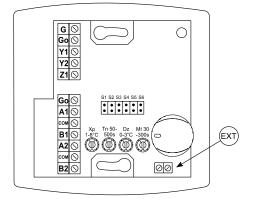
Coding by using jumpers

S1	••	010 V *	direct output to the cooling actuator
		100 V	reverse output to the cooling actuator
S2	••	010 V *	direct output to the heating actuator
		100 V	reverse output to the heating actuator
S3	•	PI *	control mode (PI controller)
		Ρ	control mode (P controller)
S4	•	3-point motor	actuator type selection
		thermal actuator *	
S5	••	1-stage cooling	number of cooling stages
		2-stage cooling *	
S6	••	l first	Y1 (010 V) cooling output works first
		II first *	3-point/thermal actuator cooling output works first

* = Factory setting

Wiring terminals, trimmers, coding

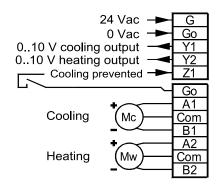




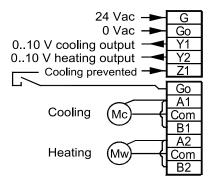
U 2 stages S5 = off T (°C) Heating Cooling Sp U 3 stages S5 = on T (°C) 1st cooling Heating Sp 2nd cooling stage stage

Connecting actuators

3-point and 0...10 V actuators



Thermal actuators and 0..10 V actuators





Things to be taken into account during commissioning

- 1. While changing trimmer positions or other settings, the setting values are shown on the HLS 33-N display (a display can be connected also temporarily for the commissioning procedure)
- 2. When the 3-point output is in the control area edge, the output is driven against the edge for 5 seconds every 5 minutes
- 3. After a power failure, the 3-point output is driven for 1,5 x running time to close the valve and to determine the position
- 4. If the cooling is prevented but the cooling is still needed, the green indicator light flashes every 30 seconds

NOTE: Block the air flow coming through the cable protection tubes.

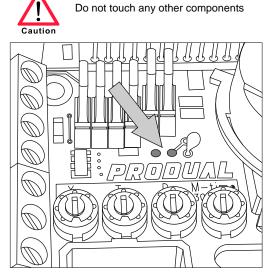
Changing the set point potentiometer midpoint

The potentiometer midpoint range is 18...24 °C.

NOTE: It is useful to fit a display to HLS 33 models during the potentiometer midpoint setting. The display can be removed after the setting is done.

- 1. Make sure the device is connected to supply voltage.
- 2. Remove the device cover.
- 3. Turn the potentiometer to the position where the 21 °C set point is wanted to be.
- 4. Connect the soldering points shown on the figure for a while.

Use e.g. a screw driver for connecting.



The midpoint changing is successful when 21.0 °C starts flashing on the display.