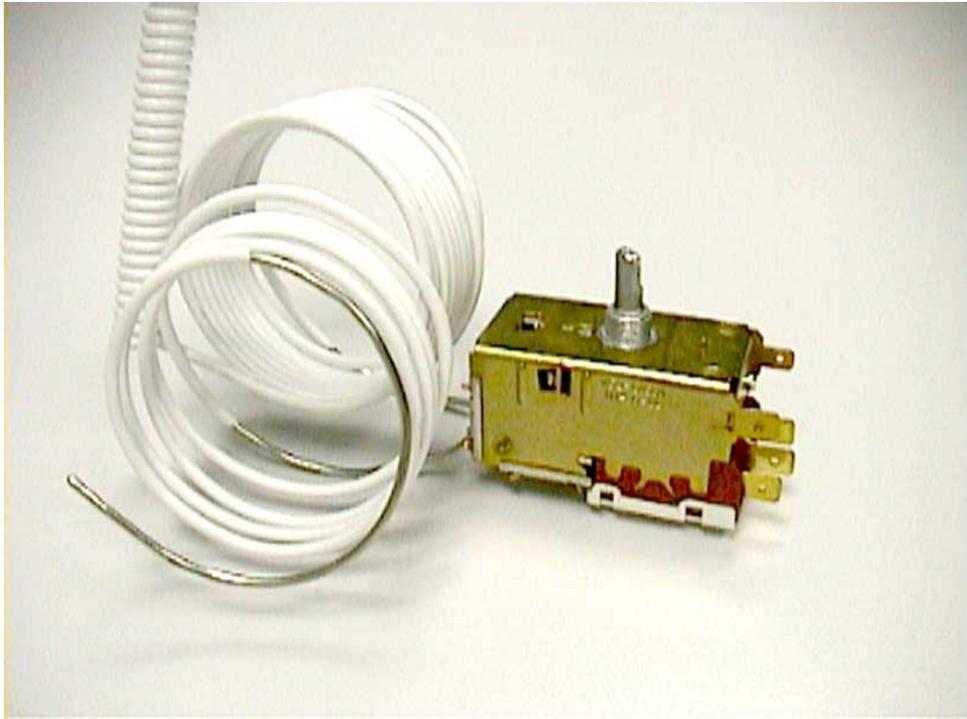
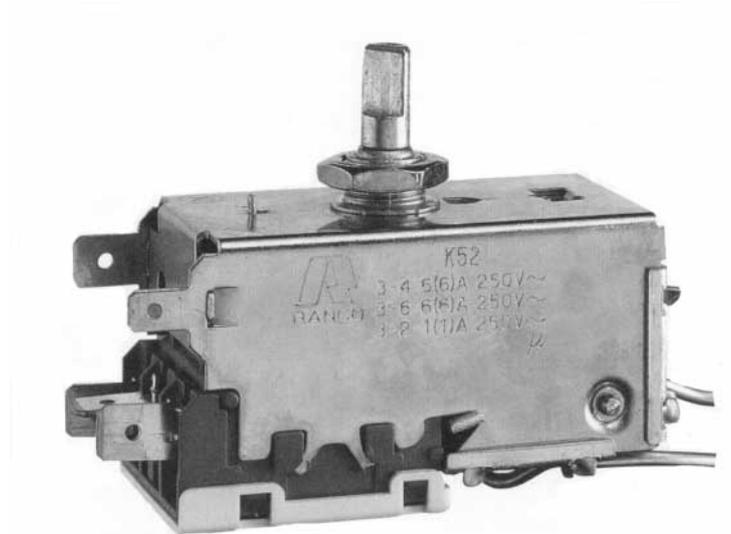


**A** RANCO

# K52 Thermostats



# Temperature control with SPST switch and 2 sensor systems



**Terminal 3-4 closes at temperature rise**  
**Terminal 3-6 opens in OFF position**

Temperature control with control logic basically different from all other “K” controls. Two separate sensor systems are acting on a snap action switch, sensor A (normally fixed to the evaporator) only taking over the cut-in function and sensor B (normally placed in the inside to be controlled) the cut-out function only. Compared to usual controls, e.g. type K59, the advantages are among others energy saving, almost unaffected control temperatures in the \*\*\* freezing and refrigerating compartment at ambient temperature changes between +16 and +32 °C.

## Possible versions

Version A: with constant cut-in/adjustable cut-out temperature, with or without heating resistor, with or without auxiliary switch (terminal 3-6), i.e. opening in OFF position.

Version B: as version A, but with crossing cut-in and cut-out line.

Version C: with adjustable cut-in/adjustable cut-out temperature, with or without heating resistor, with or without auxiliary switch (terminal 3-6), i.e. opening in OFF position.

Version D: as version C, but with crossing cut-in and cut-out line.

Further versions with constant cut-out/ adjustable cut-in temperature as well as fixed temperature values are possible.

## Rating at 250 V, 50 Hz

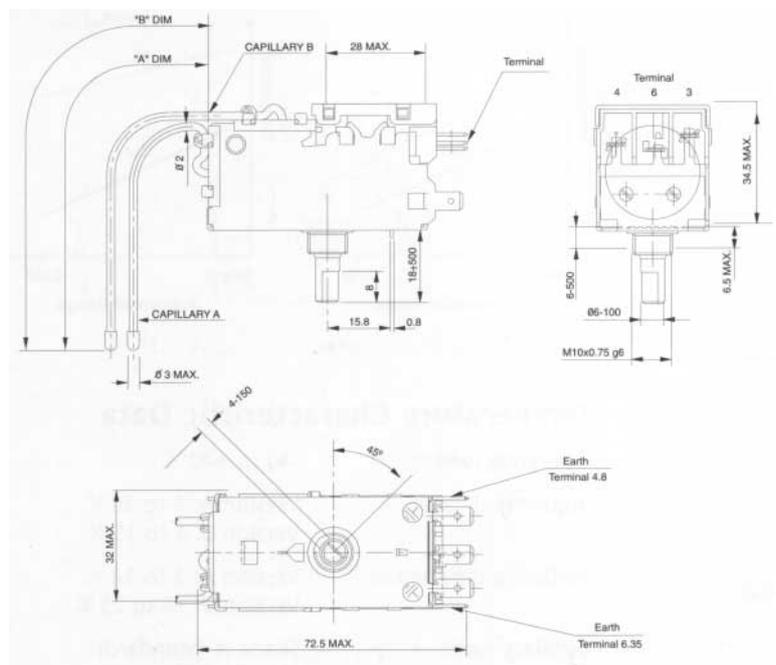
3-4: 6(6)A

3-6: 6(6)A

## Dimensions/Connections

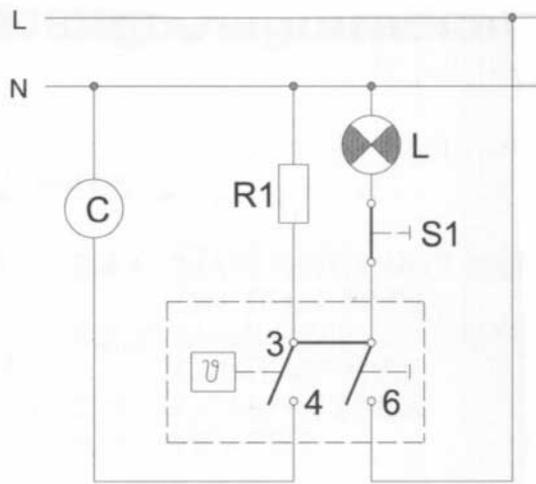
Control shown in position COLD according to standard type, other dial shaft positions on request.

For the type equipped with terminals 6,35 mm the external terminals are turned by 90° with respect to the a.m. figure.

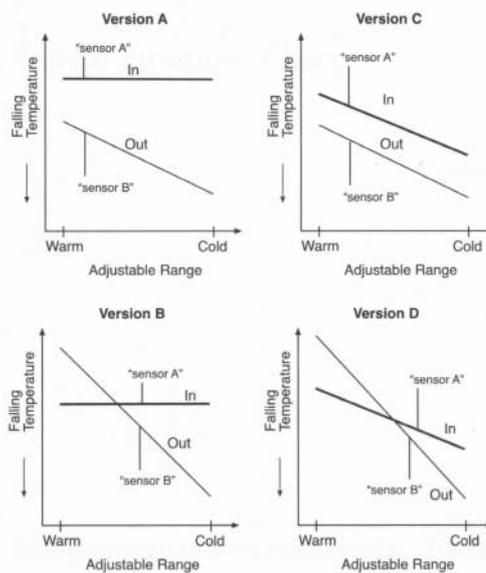


### Typical Electrical Wiring Diagram

3-4 = main switch closes on temp rise  
3-6 = aux switch opens in OFF position  
C = compressor  
L = lamp  
S1 = door switch



### Typical Function Chart



### Temperature Characteristic Data

Operating range: -40 to 40 °C  
Adjustment range: 5 to 20 K  
Constant-in value  
Version A: 0 to 8 K  
Switching differential  
Version B: 3 to 40 K  
Capillary type: Shape A (standard)  
Shape B/C (on request)

### Typical Applications

\*\*\* Refrigerators  
Refrigerating/freezing combinations

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