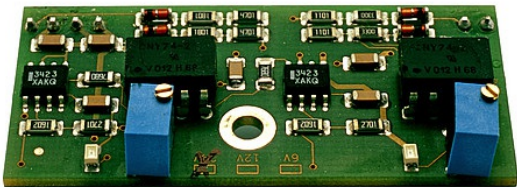


# Overvoltage sensor for switchings of power supplies

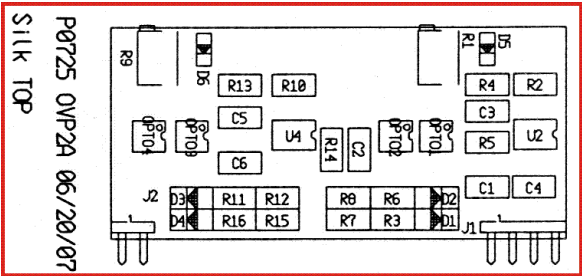
The overvoltage sensor protects downstream consumers from defects of power supply with the help of a ramp-up supply voltage.



### Specification:

- Two OVP switchings (for + and -) on one printed circuit board
- Voltage range up to +34 Volt resp. -34 Volt DC
- All switching outputs are opto-coupled.
- Each branch has two outputs (thyristor output for the short circuit of the output voltages and for the shut-down of the mains voltage via relays).
- The shut-down time (until the firing of the thyristor) amounts about 40 microseconds.
- For the operation a auxiliary voltage of +5 Volt is necessary.
- Three versions are available:
  - Trigger range +4 to +9 Volt
  - Trigger range +8 to +18 Volt
  - Trigger range +16 to +34 Volt
- For the adjustment of the trigger voltage only a multimeter is necessary.

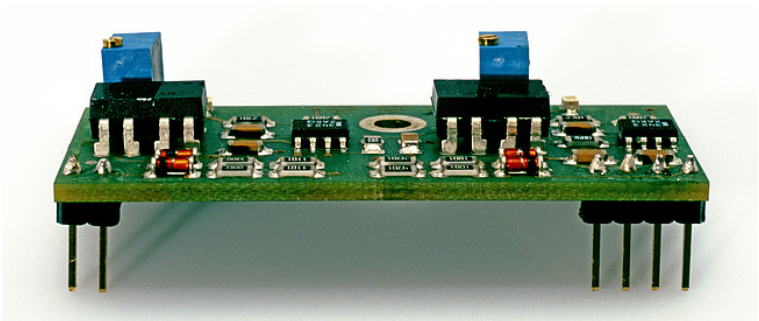
Component placement of the OVP printed circuit board:



Bestückungsplan-OVP

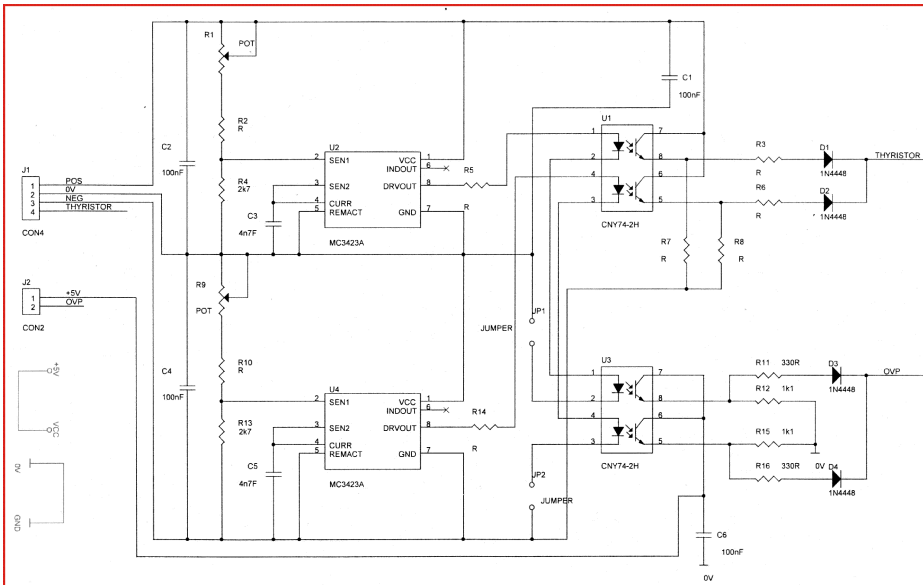
### Ports:

(Pin strips RM2.54; pins towards solder side; pins 0.6x0.6 mm)



CON1 - 1	Input voltage positive
CON1 - 2	0 Volt
CON1 - 3	Input voltage negative
CON1 - 4	Actuation thyristor
CON2 - 1	Auxiliary voltage + 5Volt
CON2 - 2	OVP signal

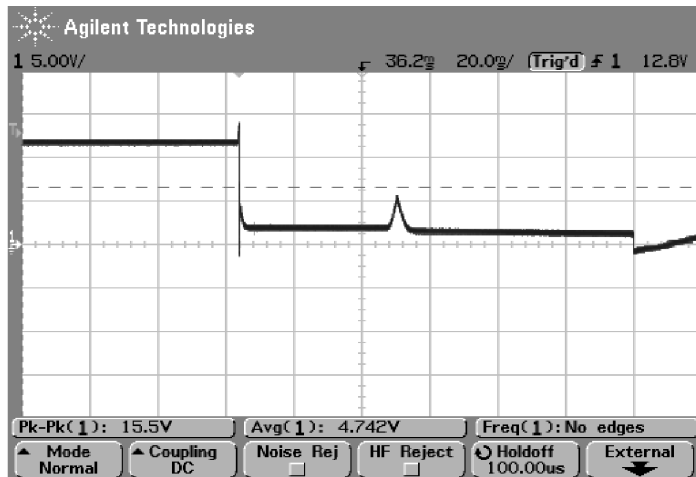
### Circuit diagram of a OVP printed circuit board:



Stromlaufplan-OVP

### Shut-down behavior:

(Switching with suppressor diodes, short-circuit thyristor and additional relay for the shut-down of the mains voltage)



OVP-Abschaltverhalten

Overvoltage sensor (OVP 6 Volt)	Article no 073 000 1/6
Overvoltage sensor (OVP 12 Volt)	Article no 073 000 1/12
Overvoltage sensor (OVP 24 Volt)	Article no 073 000 1/24

[Back to top of page "Electronics"](#)