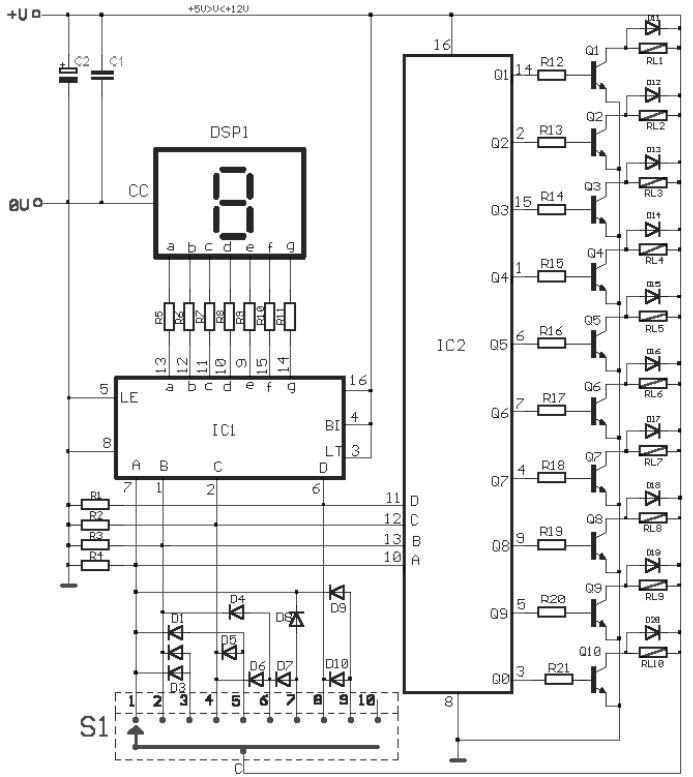
Electronic Selector for 10 sources with Display-Relay Drive



This is a circuit for alternative sources selection. It combines mechanical selection using a rotating switch S1, the electronic drive of the relays RL 1-10 and also the optical indication of the selection by the Display DSP1. The function is based on the

connection of the mechanical selections into 4 Bit (BCD) code. It is managed by the proper polarization of the diodes D1-10 and simultaneous convention into decimal output by IC2 which is a BCD to decimal decoder. The monitor is driven by the IC1, which is a BCD to 7- segment Latch/ decoder/ driver. We can made a lot of combinations and selections on the circuit. For instance, we may add Led' s in parallel with the RL1-10.

Code BCD to decimal converter for CMOS

Part List		
R1....4= 10Kohms	C2= 47uF 25V	Q1-10= **BD679**
R5....11= 820 ohms	D1.....20= 1N4148	DSP1= Display 7 segment Common Cathode
R12....21= 15Kohms	IC1= **4511**	S1= 1X10 Step Selector
C1= 100nF 63V MKT	IC2= **4028**	RL1....10= 6V or 12V Relay