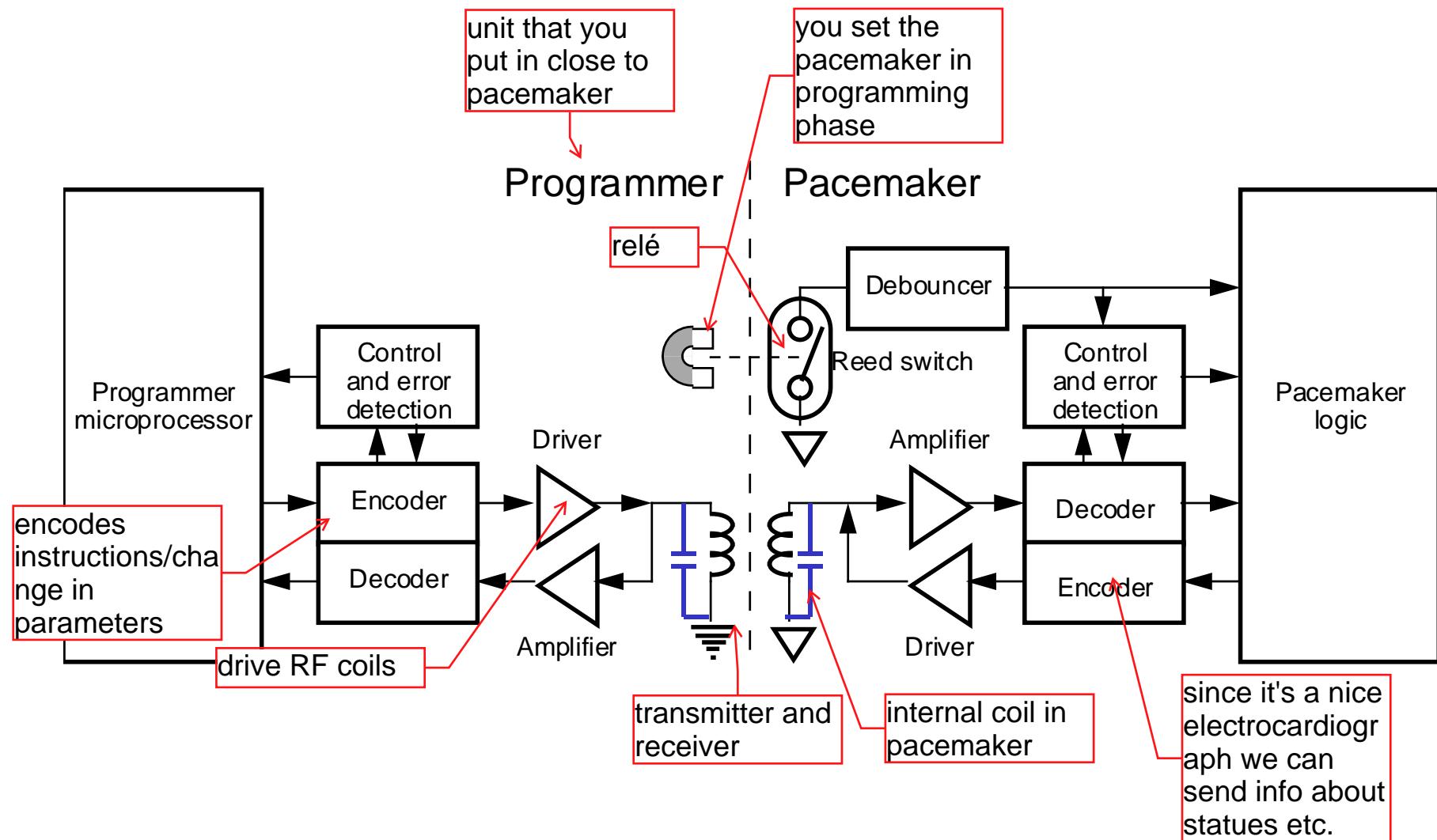
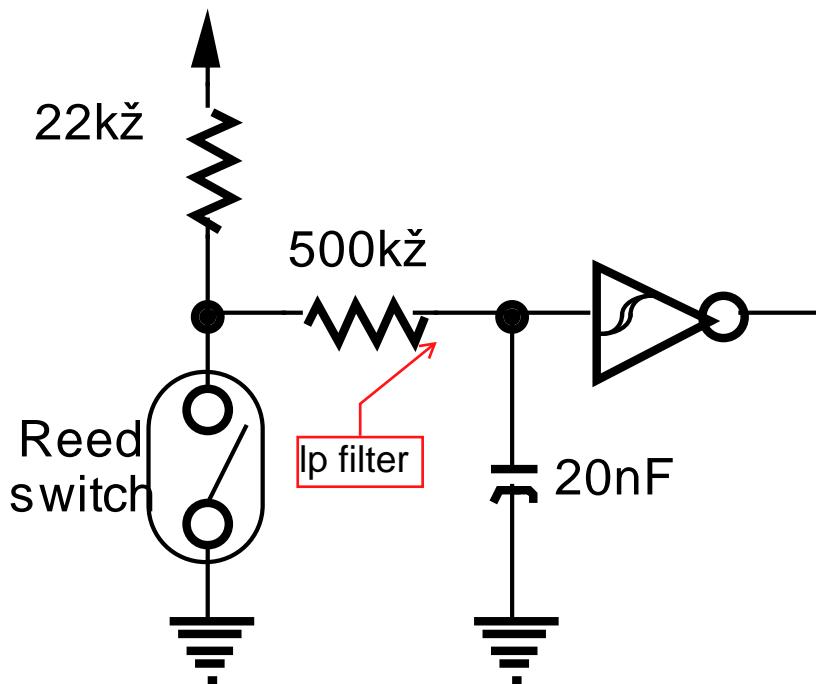




Telemetry for external programming

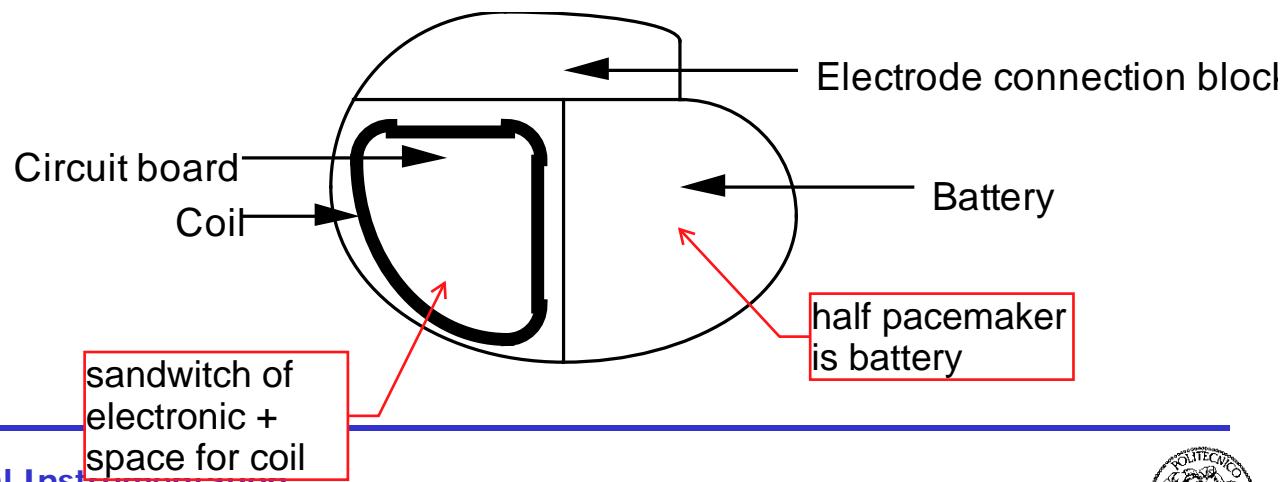


Once you close the relè there could be multiple bouncing (it's not stable). To make el. insensitive to that you can have a LP filter



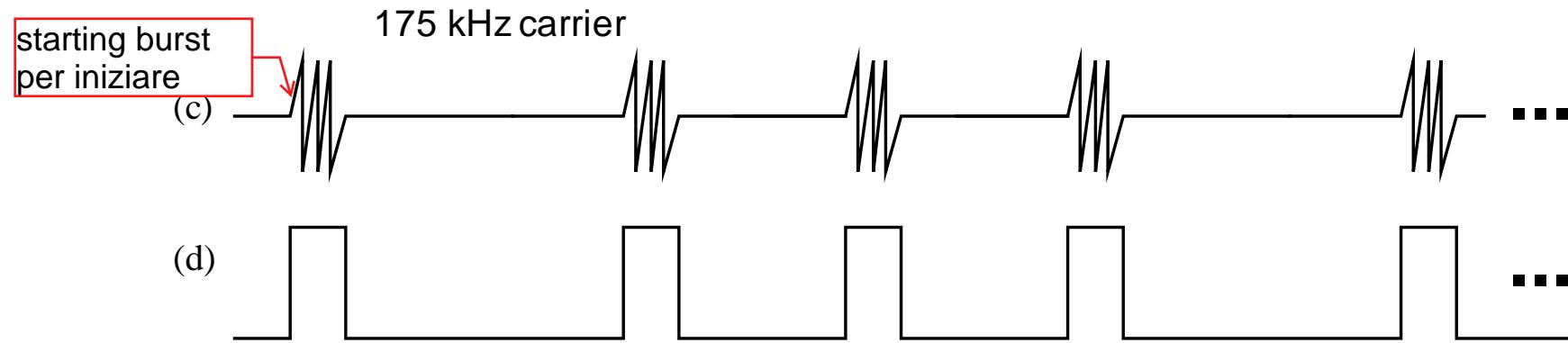
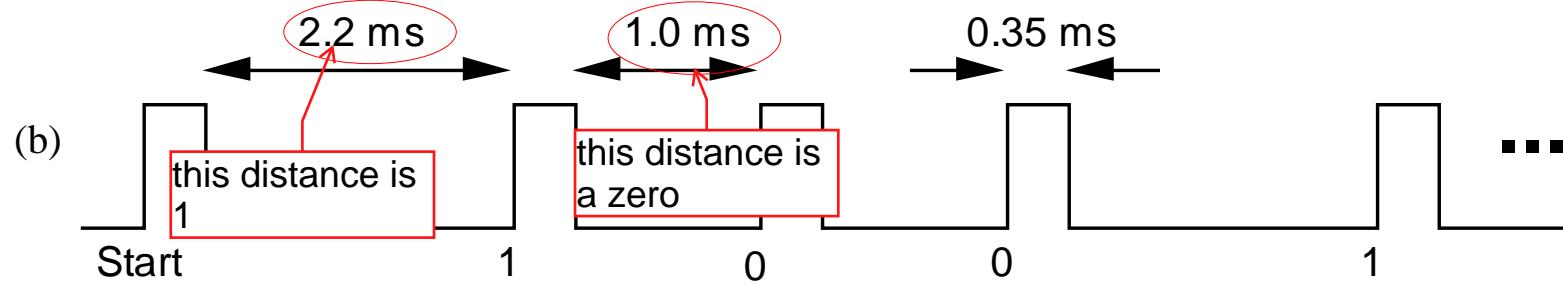
Magnetic switch with de-bouncing circuit

Coil for RF transmission



stream of digital sent to pacemaker to change parameter, eg. pulse rate. Series of bit, we have a starting one. We don't code as voltage level, but a **burst of the carrier**. **Distances between burst codes values**. So: 1st what to change, then how, then bits for protocols to be robust

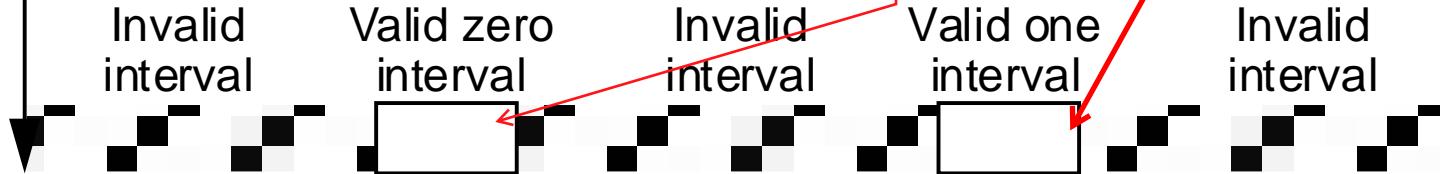
for timing	pulse rate	80 beats/min	code	errors detector
(a)	Start bit 1 bit 1 Parameter no. 8 bits 10010000 MSB LSB	Parameter value 8 bits 00101100 MSB LSB	Access code 8 bits 10010111 MSB LSB	Parity 8 bits 10111100 MSB LSB

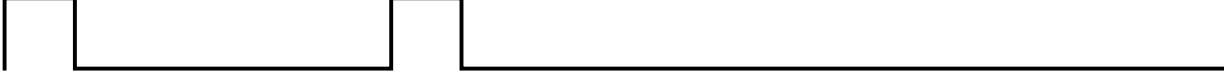


He "knows" he has to ack bits only IF they are in the correct time interval

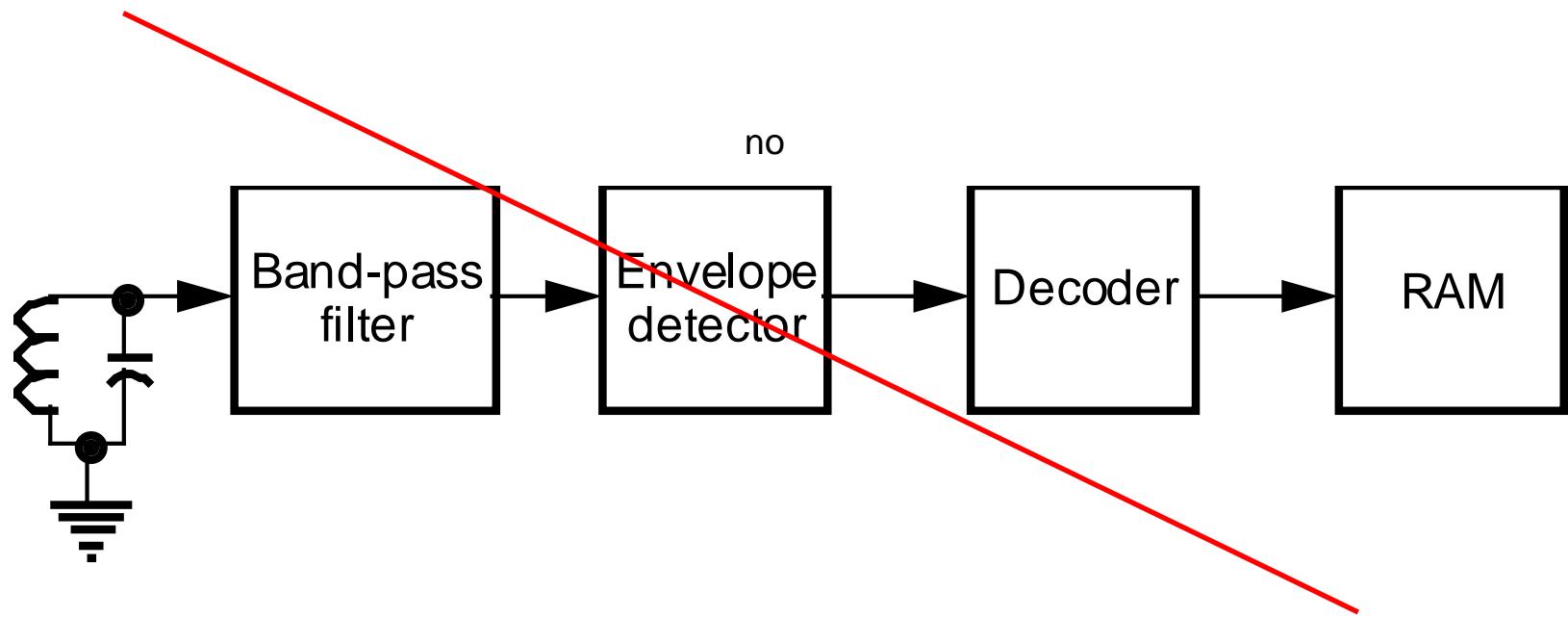
Rising edge
of previous bit

two "window" are "open" after the starting, to detect either 0 or 1.
Anything else is discarded



- (a)  Invalid *
- (b)  Zero
- (c)  Invalid *
- (d)  One
- (e)  Invalid *

* The whole message is discarded



Circuit for receiver and decoding