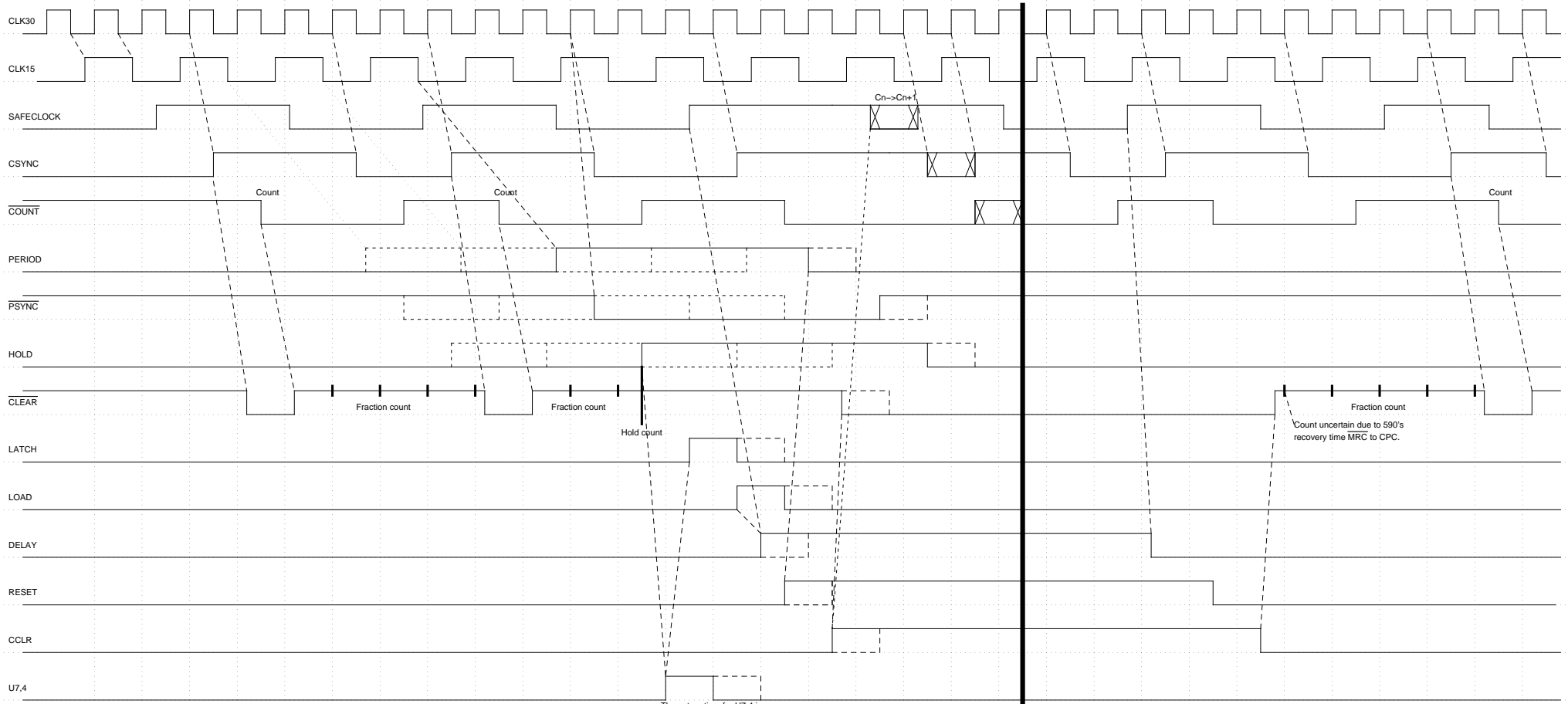
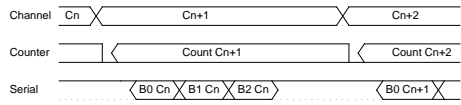


# Timing and Sequence



The setup-time for U7.4 is probably missed. No problem, just delays things one CLK30. Delay ~33us

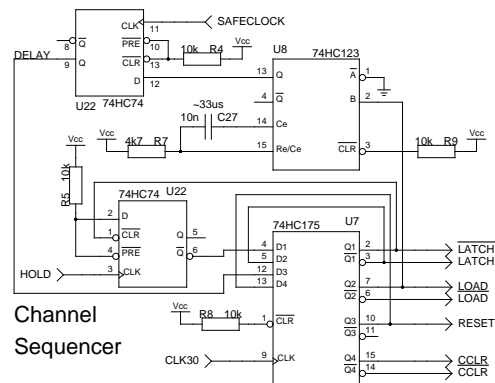
## General Data Sequence



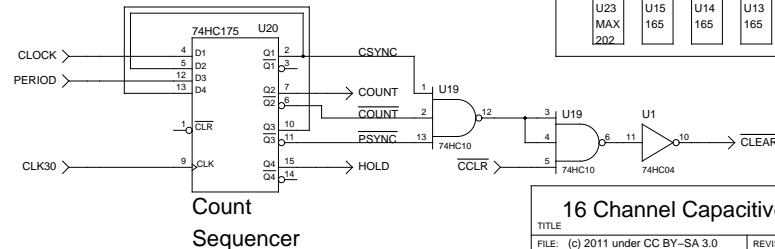
## Data Format

	bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0
Byte 0	Cnt11	Cnt10	Cnt9	Cnt8	Ch3	Ch2	Ch1	Ch0
Byte 1	Cnt7	Cnt6	Cnt5	Cnt4	Cnt3	Cnt2	Cnt1	Cnt0
Byte 2	Frac7	Frac6	Frac5	Frac4	Frac3	Frac2	Frac1	Frac0

ChX Channel [0-15]  
 CntX Period count [0-4095]  
 FracX Fraction count [0-255]  
 Input oscillator frequency:  $\frac{Cnt \cdot 30MHz}{2^{15} + 3 - Frac}$

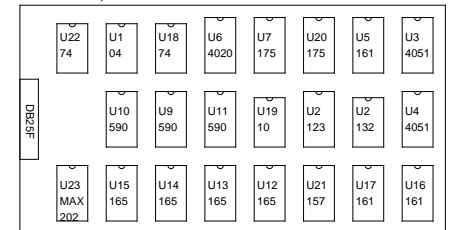


Channel Sequencer



Count Sequencer

Test-board setup



## 16 Channel Capacitive Sensor, RS232 Out