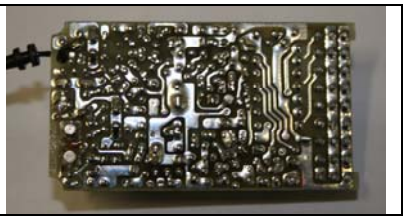
Empfänger Graupner C16

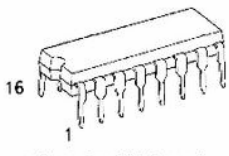



Der Empfänger beinhaltet ein IC TC4017 in DIL-Form. Die Anschlussbelegung findet man hier:

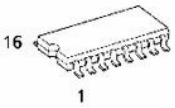
TC4017BP, TC4017BF

TC4017BP / TC4017BF DECADE COUNTER / DIVIDER

TC4017BP / BF is decimal Johnson counter consisting of 5 stage D-type flip-flop equipped with the decoder to convert the output to decimal.
Depending on the number of count pulses fed to CLOCK or CLOCK INHIBIT one output among 10 output lines "Q0" through "Q9" becomes "H" level.
The counter advances its state at rising edge of CLOCK (CLOCK IHIBIT = "L") or falling edge of CLOCK INHIBIT (CLOCK = "H"). RESET input to "H" level resets the counter to Q0 = "H" and Q1 through Q9 = "L" regardless of CLOCK and CLOCK INHIBIT.



P (DIP16-P-300-2.54A)
Weight : 1.00g (Typ.)

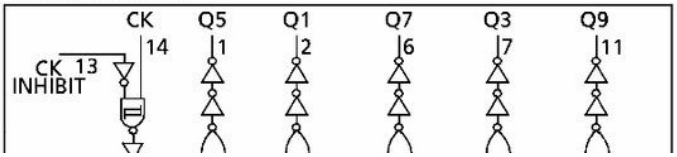


F (SOP16-P-300-1.27)
Weight : 0.18g (Typ.)

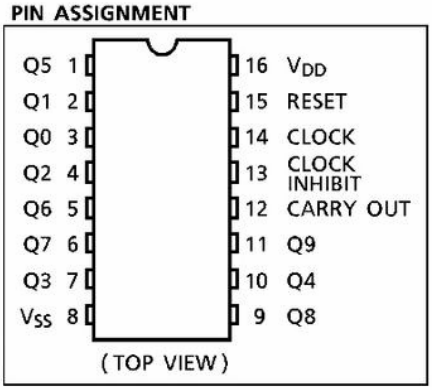
MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
DC Supply Voltage	V_{DD}	$V_{SS}-0.5 \sim V_{SS}+20$	V
Input Voltage	V_{IN}	$V_{SS}-0.5 \sim V_{DD}+0.5$	V
Output Voltage	V_{OUT}	$V_{SS}-0.5 \sim V_{DD}+0.5$	V
DC Input Current	I_{IN}	±10	mA
Power Dissipation	P_D	300 (DIP) / 180 (SOIC)	mW
Operating Ambient Temperature Range	T_{opr}	−40~85	°C
Storage Temperature Range	T_{stg}	−65~150	°C

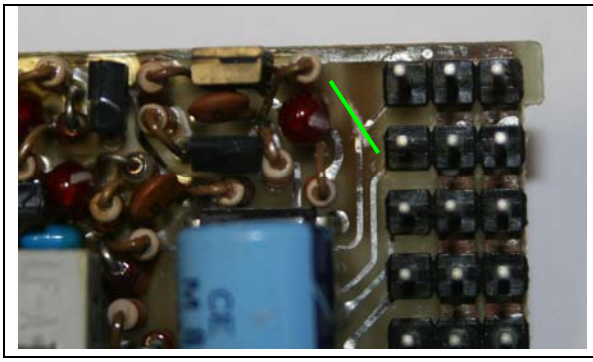
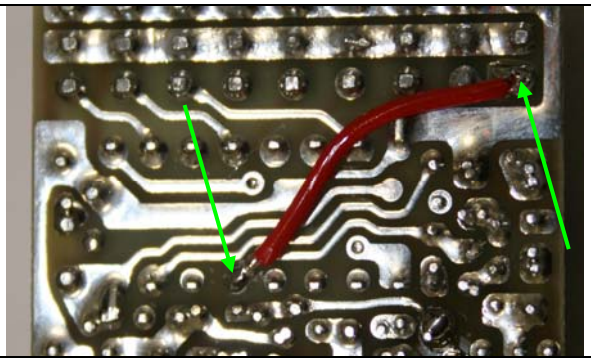
LOGIC DIAGRAM



PIN ASSIGNMENT



Zum Umbauen muss man den Pin des Batterieanschlusses mit Pin 13 (Clock inhibit) verbinden. Dazu muss die vorherige Verbindung des Batteriepins auf der Platine durchtrennt werden und danach mit Pin 13 des ICs verbunden werden.

Der Empfänger kann jetzt wie der ACT Rx3 an die Flight Ctrl angeschlossen werden.